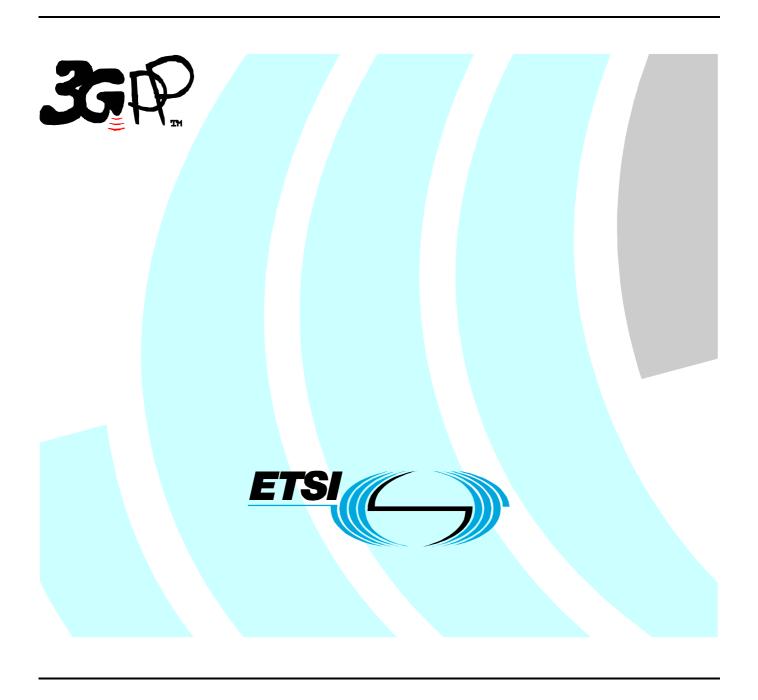
# ETSITS 134 108 V5.1.0 (2004-06)

Technical Specification

Universal Mobile Telecommunications System (UMTS); Common test environments for User Equipment (UE) conformance testing (3GPP TS 34.108 version 5.1.0 Release 5)



Reference
RTS/TSGT-0134108v510

Keywords

UMTS

#### **ETSI**

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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#### **Foreword**

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

### Introduction

The definition of the Conformance Tests for UE in 3G will be a complex task as the complete test suite covers RF, EMC and Protocol aspects of the UE.

Each test requires a Test Environment to be defined in which the UE has to operate to defined standards, constraints and performance. The overall task can be simplified if there are a number of well defined and agreed Common Test Environments where every one can be used for a number of tests. Hence the present documents defines testing conditions that are common to several tests avoiding the need to duplicate the same information for every single test.

The present document defines default values for a variety of common areas. Where values are not specified in test cases, the defaults in the present document will apply. If specified, the test case values will take precedence.

The present document addresses the FDD mode as well as the TDD mode.

# 1 Scope

The present document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in UE conformance tests.

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.

Telephone Network (PSTN)".

• For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

| 110100000 000 11 | e present deciment.                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| [1]              | 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".                                |
| [2]              | 3GPP TS 34.121: "Terminal Conformance Specification; Radio transmission and reception (FDD)".                                                 |
| [3]              | 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification". |
| [4]              | 3GPP TS 34.124: "ElectroMagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment".                              |
| [5]              | 3GPP TS 34.122: "Terminal Conformance Specification; Radio transmission and reception (TDD)".                                                 |
| [6]              | 3GPP TS 34.109: "Terminal Logical Test Interface; Special conformance testing functions".                                                     |
| [8]              | 3GPP TS 25.214: "Physical layer procedures (FDD)".                                                                                            |
| [7]              | 3GPP TS 25.301 "Radio Interface Protocol Architecture".                                                                                       |
| [9]              | 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".                                                                                         |
| [10]             | 3GPP TR 25.990: "Vocabulary".                                                                                                                 |
| [11]             | 3GPP TS 25.101: "UE Radio transmission and reception (FDD)".                                                                                  |
| [12]             | 3GPP TS 25.102: "UTRA (UE) TDD; Radio transmission and reception".                                                                            |
| [13]             | 3GPP TS 25.211: "Physical Channels and mapping of Transport Channels onto Physical channels (FDD)".                                           |
| [14]             | 3GPP TS 25.212: "Multiplexing and Channel Coding (FDD)".                                                                                      |
| [15]             | 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".                                                                          |
| [16]             | 3GPP TS 26.110: "Codec for Circuit Switched Multimedia Telephony Service; General Description".                                               |
| [17]             | 3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile                                                          |

Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched

| [18] | 3GPP TR 23.910: "Circuit Switched Data Bearer Service".                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [19] | Void.                                                                                                                                                                                       |
| [20] | 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".                                                                                                                          |
| [21] | 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".                                                                                                                          |
| [22] | 3GPP TS 31.101: "UICC-Terminal Interface; Physical and Logical Characteristics".                                                                                                            |
| [23] | 3GPP TS 31.102: "Characteristics of the USIM Application".                                                                                                                                  |
| [24] | 3GPP TS 33.102: "3G Security; Security Architecture".                                                                                                                                       |
| [25] | 3GPP TS 33.103: "3G Security; Integration Guidelines".                                                                                                                                      |
| [26] | 3GPP TS 33.105: "3G Security; Cryptographic Algorithm Requirements".                                                                                                                        |
| [27] | 3GPP TS 25.224: "Physical layer procedures (TDD)".                                                                                                                                          |
| [28] | 3GPP TS 25.221: "Physical Channels and mapping of Transport Channels onto Physical channels (TDD)".                                                                                         |
| [29] | 3GPP TS 25.222: "Multiplexing and Channel Coding (TDD)".                                                                                                                                    |
| [30] | 3GPP TS 25.133: "Requirements for support of radio resource management (FDD)".                                                                                                              |
| [31] | 3GPP TS 51.010-1: "GSM/EDGE Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification". |
| [32] | 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core Network Protocols; Stage 3".                                                                                            |

# 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in [9], [10] and the following apply:

**Maximum average power:** average transmitter output power obtained over any specified time interval, including periods with no transmission, when the transmit time slots are at the maximum power setting

### 3.2 Abbreviations

Direct transfer

DT

For the purposes of the present document, the abbreviations given in [9], [10] and the following apply:

| $I_{oc}$ | The power spectral density of a band limited white noise source (simulating interference from other cells) as measured at the UE antenna connector. |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| AFC      | Automatic Frequency Control                                                                                                                         |
| AM       | Acknowledgement mode                                                                                                                                |
| ATT      | Attenuator                                                                                                                                          |
| BCCH     | Broadcast Control Channel                                                                                                                           |
| CBS      | Cell Broadcast Service                                                                                                                              |
| CC       | Convolutional coding                                                                                                                                |
| CCCH     | Common Control Channel                                                                                                                              |
| CCTrCH   | Coded Composite Transport Channel                                                                                                                   |
| CS       | Circuit switching                                                                                                                                   |
| DCCH     | Dedicated Control Channel                                                                                                                           |
| DL       | Downlink                                                                                                                                            |
| DPCH     | Dedicated Physical Channel                                                                                                                          |
|          |                                                                                                                                                     |

DTCH Dedicated Traffic Channel FTM File tunnelling mode

HYB Hybrid

NAS Non-access stratum
OBW Occupied Bandwidth

OCNS Orthogonal Channel Noise Simulator, a mechanism used to simulate the users or control signals on

the other orthogonal channels of a downlink.

PRACH Physical Randome Access Channel

PS Packet switching
RAB Radio Access Bearer
RB Radio Bearer

RRC Radio Resource Control (for sub-Layer of layer 3) but also Root-Raised Cosine (for Filter shape)

SCCPCH Secondary Common Control Physical Channel

SMS Short Message Service
SRB Signalling RB
SS System Simulator

SSD Source statistics descriptor

TC Turbo coding
TM Transparent mode

UL Uplink

UM Unacknowledgement mode

# 4 Common requirements of test equipment

Mobile conformance testing can be categorised into 3 distinct areas:

- RF Conformance Testing.
- EMC Conformance Testing.
- Signalling Conformance Testing.

The test equipment required for each category of testing may or not be different, depending on the supplier of the test equipment. However, there will be some generic requirements of the test equipment that are essential for all three categories of test, and these are specified in this clause.

In addition, there will be requirements to test operation in multi-system configurations (eg UTRA plus GSM/DCS1800). However, these would not form a common test equipment requirement for the three test areas and are not considered in the present document.

# 4.1 General Functional Requirements

NOTE: This clause has been written such that it does not constrain the implementation of different architectures and designs of test equipment.

All test equipment used to perform conformance testing on a UE shall provide a platform suitable for testing UE's that are either:

- a) FDD Mode; or
- b) TDD Mode; or
- c) both FDD/TDD Modes.

All test equipment shall provide (for the mode(s) supported) the following minimum functionality.

- The capability of emulating a single UTRA cell with the appropriate channels to allow the UE to register on the cell.
- The capability to allow the UE to set up an RRC connection with the System Simulator, and to maintain the connection for the duration of the test.

- The capability (for the specific test):
  - to select and support an appropriate Radio Bearer for the downlink;
  - to set the appropriate downlink power levels;
  - to set up and support the appropriate Radio Bearer for the uplink;
  - to set and control the uplink power levels.

# 4.2 Minimum performance levels

#### 4.2.1 Supported Cell Configuration

The System Simulator shall provide the capability to simulate a minimum number of cells (of the appropriate UTRA Mode) whose number and capabilities are governed by the test cases that need to be performed (test cases are defined in [1] (Signalling), [2] (RF-FDD) and [5] (RF-TDD)). For this purpose test cases can be split into two different categories: Tests that require only one cell and Tests that require several cells.

To perform test cases requiring one cell, the system simulator must provide a Cell offering the capabilities to perform all the test cases in this category.

To perform test cases requiring several cells, additional cells must be provided by the system simulator. The additional cells, however, need only provide a minimum set of capabilities so as to support the first cell in carrying out the multicell test cases.

The type and number of channels (especially physical channels) constitute an important set of capabilities for a cell. The following clauses list possible channels that may be supported by the SS. Each channel type, however, and the minimum number of channels needed are only mandatory if specific test cases require them.

The mapping between Logical and Transport channels is as described in [7]. Similarly the mapping between Transport channels and Physical channels is as described in 3GPP TS 25.211 for the FDD mode, and 3GPP TS 25.221 for the TDD mode. The reference measurement channels (mapping between Transport channels and Physical channels for DTCH/DCCH to be tested) are defined in [2] annex C for FDD and [5] annex C for TDD.

#### 4.2.1.1 Supported Channels for FDD Mode

#### 4.2.1.1.1 Logical Channels

| Logical Channel Minimum Number |               | Comments                                                                        |  |  |
|--------------------------------|---------------|---------------------------------------------------------------------------------|--|--|
| BCCH                           | 1             |                                                                                 |  |  |
| СССН                           | 1             |                                                                                 |  |  |
| DCCH                           | 4             | 2 for RRC testing, 2 for NAS testing                                            |  |  |
| PCCH                           | 1             |                                                                                 |  |  |
| DTCH                           | n <ffs></ffs> | Depending on SS's support for RB service testing (See clause 14 of TS 34.123-1) |  |  |

#### 4.2.1.1.2 Transport Channels

| Transport Channel | Minimum Number | Comments            |
|-------------------|----------------|---------------------|
| BCH               | 1              |                     |
| FACH              | 1              |                     |
| PCH               | 1              |                     |
| DCH               | n <ffs></ffs>  |                     |
| DSCH              | 1              |                     |
| RACH              | 2              |                     |
| CPCH              | 1              |                     |
| FAUSCH            | N/A            | Not in Release 1999 |

# 4.2.1.1.3 Physical Channels

| Physical Channel | Minimum Number   | Comments                                                                                                                                                                                                                                                    |  |  |
|------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| P-CCPCH          | 1                | Primary Common Control Physical Channel. This is used by the Cell to Broadcast System Information messages, it is transmitted using the Primary Scrambling Code for the Cell.                                                                               |  |  |
| P-CPICH          | 1                | Primary Common Pilot Channel using the Primary Scrambling Code for the Cell.                                                                                                                                                                                |  |  |
| S-CPICH          | 1 (For RF Tests) | Secondary Common Pilot Channel. This signal is used as the phase reference for some RF tests.                                                                                                                                                               |  |  |
| SCH              | 1                | Synchronisation Channel (includes P-SCH and S-SCH)                                                                                                                                                                                                          |  |  |
| S-CCPCH          | 2                | Secondary Common Control Physical Channel.                                                                                                                                                                                                                  |  |  |
| PICH             | 1                | To identify when the UE should access the PCCH for Paging Messages.                                                                                                                                                                                         |  |  |
| AICH             | 1                | General Acquisition Indicator Channel that can be used for: - Aquisition Indicator Channel, for PRACH - Access Preamble Acquisition Indicator Channel (AP-ICH), for PCPCH - Collision-Detection/Channel-Assignment Indicator Channel (CD/CA-ICH), for PCPCH |  |  |
| DPDCH            | 3                | Downlink Physical Data Channel. There will be a single DPCCH associated with all the DPDCHs used for Layer 1 signalling. This number is for the First Cell. Additional Cells may define a lower number which should be at least 1.                          |  |  |
| PDSCH            | 1                | Physical Downlink Shared Channel.                                                                                                                                                                                                                           |  |  |
| DPCH             | 1                | Uplink Dedicated Physical Channel                                                                                                                                                                                                                           |  |  |
| PRACH            | 2                | Physical Random Access Channel.                                                                                                                                                                                                                             |  |  |
| PCPCH            | 1                | Physical Common Packet Channel.                                                                                                                                                                                                                             |  |  |
| CSICH            | 1                | CPCH Status Indicator Channel                                                                                                                                                                                                                               |  |  |

# 4.2.1.2 Supported Channels for TDD Mode

# 4.2.1.2.1 Logical Channels

| Logical Channel  | Minimum Number | Comments                                                                                                               |  |  |  |  |
|------------------|----------------|------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Control Channels |                |                                                                                                                        |  |  |  |  |
| BCCH             | 1              | Broadcast Control Channel: DL channel for broadcasting                                                                 |  |  |  |  |
|                  |                | system control information.                                                                                            |  |  |  |  |
| СССН             | 1              | Common Control Channel: Bi-directional channel for                                                                     |  |  |  |  |
|                  |                | transmitting control information between network and UEs.                                                              |  |  |  |  |
|                  |                | This channel is commonly used by the UEs having no RRC                                                                 |  |  |  |  |
|                  |                | connection with the network and by the UEs using common                                                                |  |  |  |  |
|                  |                | transport channels when accessing a new cell after cell                                                                |  |  |  |  |
|                  |                | reselection.                                                                                                           |  |  |  |  |
| DCCH             | 4              | Dedicated Control Channel: A point-to-point bi-directional                                                             |  |  |  |  |
|                  |                | channel that transmits dedicated control information between                                                           |  |  |  |  |
|                  |                | a UE and the network. This channel is established through                                                              |  |  |  |  |
|                  |                | RRC connection setup procedure. 2 channels for RRC testing                                                             |  |  |  |  |
| 2001             |                | and 2 channels for NAS testing estimated.                                                                              |  |  |  |  |
| PCCH             | 1              | Paging Control Channel: DL channel that transfers paging                                                               |  |  |  |  |
|                  |                | information. This channel is used when the network does not                                                            |  |  |  |  |
|                  |                | know the location cell of the UE, or, the UE is in the cell                                                            |  |  |  |  |
| 0110011          | 4              | connected state                                                                                                        |  |  |  |  |
| SHCCH            | 1              | Shared Channel Control Channel: Bi-directional channel that                                                            |  |  |  |  |
|                  |                | transmits control information for uplink and downlink shared channels between network and UEs. This channel is for TDD |  |  |  |  |
|                  |                |                                                                                                                        |  |  |  |  |
|                  | Т              | only. raffic Channels                                                                                                  |  |  |  |  |
| DTCH             |                |                                                                                                                        |  |  |  |  |
| DICH             | 1              | Dedicated Traffic Channel is a point-to-point channel, dedicated to one UE, for the transfer of user information. A    |  |  |  |  |
|                  |                | DTCH can exist in both UL and DL.                                                                                      |  |  |  |  |
| СТСН             | 1              | Common Traffic Channel is a point-to-multipoint unidirectional                                                         |  |  |  |  |
|                  |                | channel for transfer of dedicated user information for all or a                                                        |  |  |  |  |
|                  |                | group of specified UEs.                                                                                                |  |  |  |  |
|                  |                | group or specified OES.                                                                                                |  |  |  |  |

# 4.2.1.2.2 Transport Channels

| Transport Channel | Minimum Number | Comments                                                       |  |
|-------------------|----------------|----------------------------------------------------------------|--|
| ВСН               | 1              | Broadcast Channel: DL channel used to broadcast system         |  |
|                   |                | and cell-specific information.                                 |  |
| FACH              | 1              | Forward Access Channel: DL channel used to carry control       |  |
|                   |                | information to a mobile station when the system knows the      |  |
|                   |                | location cell of the mobile station (may also carry short user |  |
|                   |                | packets).                                                      |  |
| PCH               | 1              | Paging Channel: DL channel used to carry control information   |  |
|                   |                | to a mobile station when the system does not know the          |  |
|                   |                | location cell of the mobile station.                           |  |
| DCH               | 2              | Dedicated Channel:UL or DL channel used to carry user or       |  |
|                   |                | control information between the UTRAN and a UE                 |  |
| DSCH              | 1              | DL shared channel: DL channel shared by several UEs            |  |
|                   |                | carrying dedicated control or traffic data.                    |  |
| USCH              | 1              | UL shared channel: UL channel shared by several UEs            |  |
|                   |                | carrying dedicated control or traffic data.                    |  |
| RACH              | 1              | Random Access Channel: UL channel used to carry control        |  |
|                   |                | information from mobile station. The RACH may also carry       |  |
|                   |                | short user packets.                                            |  |

# 4.2.1.2.3 Physical Channels (3.84 Mcps option)

| Physical Channel | Minimum Number | Comments                                                                                                                                                                                                                                            |  |  |
|------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| P-CCPCH          | 1              | Primary Common Control Physical Channel The BCH as described in subclause 4.2 is mapped onto the P-CCPCH. The position (time slot / code) of the P-CCPCH is known from PSCH.                                                                        |  |  |
| SCH              | 1              | Synchronisation Channel. Code group of a cell can be derived from the synchronisation channel. In order not to limit the uplink/downlink asymmetry the SCH is mapped on one or two downlink slots per frame only.                                   |  |  |
| S-CCPCH          | 2              | Secondary Common Control Physical Channel. PCH and FACH as described in subclause 4.2 are mapped onto one or more S-CCPCH.                                                                                                                          |  |  |
| PICH             |                | Paging Indicator Channel is a physical channel used to carry the paging indicators.                                                                                                                                                                 |  |  |
| DPCH (DL)        | 3              | Downlink Dedicated Physical Channel. DCH channels are mapped onto DPCH                                                                                                                                                                              |  |  |
| PDSCH            | 1              | Physical Downlink Shared Channel. DSCH as desribed in subclause 4.2 is mapped onto one or more PDSCH.                                                                                                                                               |  |  |
| DPCH (UL)        | 1              | Uplink Dedicated Physical Channel. DCH channels are mapped onto DPCH.                                                                                                                                                                               |  |  |
| PUSCH            | 1              | Physical Uplink Shared Channel. The USCH as desribed in subclause 4.2 is mapped onto one or more PUSCH. Timing advance, as described in TS-25.224, subclause 4.3, is applied to the PUSCH.                                                          |  |  |
| PRACH            | 2              | Physical Random Access Channel. The RACH as described in subclause 4.2 is mapped onto PRACH                                                                                                                                                         |  |  |
| PNBSCH           | 1              | Physical node B synchronisation channel: In case cell sync bursts are used for Node B synchronisation the PNBSCH shall be used for the transmission of the cell sync burst TS 25.223. The PNBSCH shall be mapped on the same timeslot as the PRACH. |  |  |

#### 4.2.1.2.4 Physical Channels (1.28 Mcps option)

| Physical Channel | Minimum Number | Comments                                                                                                                                                                                                                                                                                                                              |  |  |
|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| P-CCPCH          | 2              | Primary Common Control Physical Channel.The BCH as described in section 4.1.2 "Common Transport Channels" is mapped onto the P-CCPCH1 and P-CCPCH2. The position (time slot / code) of the P-CCPCHs is fixed in the 1.28Mcps TDD. The P-CCPCHs are mapped onto the first two code channels of timeslot#0 with spreading factor of 16. |  |  |
| DwPCH            | 1              | Synchronisation Channel for DL. Present in each 5 ms subframe.                                                                                                                                                                                                                                                                        |  |  |
| UpPCH            | 1              | Synchronisation Channel for UL. Present in each 5 ms subframe.                                                                                                                                                                                                                                                                        |  |  |
| S-CCPCH          | 2              | Secondary Common Control Physical Channel. PCH and FACH as described in subclause 4.1.2 are mapped onto one or more S-CCPCH.                                                                                                                                                                                                          |  |  |
| PICH             |                | Paging Indicator Channel is a physical channel used to carry the paging indicators.                                                                                                                                                                                                                                                   |  |  |
| DPCH (DL)        | 3              | Downlink Dedicated Physical Channel.DCH channels are mapped onto DPCH                                                                                                                                                                                                                                                                 |  |  |
| PDSCH            | 1              | Physical Downlink Shared Channel. PDSCH provides the possibility for transmission of TFCI, SS, and TPC in downlink.                                                                                                                                                                                                                   |  |  |
| DPCH (UL)        | 1              | Uplink Dedicated Physical Channel. DCH channels are mapped onto DPCH.                                                                                                                                                                                                                                                                 |  |  |
| PUSCH            | 1              | Physical Uplink Shared Channel. PUSCH provides the possibility for transmission of TFCI, SS, and TPC in uplink.                                                                                                                                                                                                                       |  |  |
| FPACH            | 1              | Fast Physical Access Channel. FPACH is used by the Node B to carry, in a single burst, the acknowledgement of a detected signature with timing and power level adjustment indication to a user equipment.                                                                                                                             |  |  |
| PRACH            | 2              | Physical Random Access Channel. The RACH as described in subclause 4.2 is mapped onto one or more uplink physical random access channels (PRACH).                                                                                                                                                                                     |  |  |

#### 4.2.1.3 Support of T<sub>cell</sub> timing offset

In test case parameter declarations, the parameter  $T_{cell}$  may be specified between 0 to 38399, to allow for extensibility. However, the system simulator is required only to support a maximum  $T_{cell}$  value of 2304, with a step resolution of 256. The SS may limit a  $T_{cell}$  value of greater than 2304, and may round  $T_{cell}$  to the nearest multiple of 256.

#### 4.2.2 RF Performance

#### 4.2.2.1 Frequency of Operation

The System Simulator shall be capable of adjusting the Carrier Frequency of the DL channels to any frequency allowed in the DL frequency band. The DL frequency shall be accurate to the level of accuracy set by the core specications [20] for FDD and [21] for TDD.

For RF tests, the requirement of Test Equipment is described in [2] annex F for FDD and [5] annex F for TDD respectively.

#### 4.2.2.2 Power Level Setting Accuracy

The system simulator shall be able to adjust the average power output of the DL Channels to meet the absolute accuracy of the system simulator DL power levels covered in clause 5.4.1 Downlink Signal Levels.

For RF tests, the requirement of Test Equipment is described in [2] annex F for FDD and [5] annex F for TDD respectively.

The system simulator shall be capable of altering the power of the DL Dedicated channels under control of the UE Layer 1 Signalling information.

#### 4.2.2.3 Uplink Power Control

The system simulator shall be able to command the UE to transmit at the maximum level for its power class or a lower level required for specific tests. The system simulator shall also provide the capability of generating the Layer 1 Signalling information to set the power levels of the Uplink Dedicated Channels from the UE to lower levels if required.

#### 4.2.2.4 Uplink Signal Handling

For FDD mode, the System Simulator shall not be damaged by a Power Class 1 UE transmitting at the maximum power level permitted in [11] and for TDD mode by a Power Class 2 UE transmitting at the maximum power level permitted in [12].

#### 4.2.2.5 Uplink Sensitivity

The simulator shall be able to receive uplink transmissions from the UE when it is transmitting at the minimum power level defined in [11] for FDD mode, and [12] for TDD mode.

Editor's note: this is obviously a useful feature for the system simulator; however it is <ffs> if it should be an essential common requirement for a protocol test system.

#### 4.2.3 Timers Tolerances

All the timers used during testing are within a tolerance margin given by the equation below. If for a specific test a different tolerance value is required then this should be specified in the relevant test document (i.e. the document where the test is described).

Timer tolerance = 10%, or  $2 * TTI + t_{delta}$ , whichever value is the greater.

Where  $t_{delta}$  is 55 ms.

# 5 Reference Test Conditions

# 5.1 Test frequencies

The test frequencies are based the UMTS frequency bands defined in the core specifications.

To avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2,6 MHz since the channel's width is 5 MHz for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option since the channel's width is 1.6 MHz. The raster spacing is 200KHz. Similarly the highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2.6 MHz for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option.

NOTE1: Additional regulations concerning interferences to frequency bands used by different systems may also exist. Those regulations are specific to the country where the test equipment is used and need to be taken into account if they require a higher offset than 2,6 MHz from the edge frequencies for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option.

NOTE2: In Band VI, to avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2,5 MHz, highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2,5 MHz from the edge frequencies since additional center frequencies are specified according to [11].

# 5.1.1 FDD Mode Test frequencies

UTRA/FDD is designed to operate in one of three paired bands [11]. The reference test frequencies for the common test environment for each of the 4 operating bands are defined in the following tables:

#### 5.1.1.1 FDD reference test frequencies for Operating Band I

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 9 613  | 1 922.6 MHz         | 10 563 | 2 112.6 MHz           |
| Mid Range         | 9 750  | 1 950.0 MHz         | 10 700 | 2 140.0 MHz           |
| High Range        | 9 887  | 1 977.4 MHz         | 10 837 | 2 167.4 MHz           |

#### 5.1.1.2 FDD reference test frequencies for Operating Band II

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 9 263  | 1 852.6 MHz         | 9 663  | 1 932.6 MHz           |
| Mid Range         | 9 400  | 1 880 MHz           | 9 800  | 1 960 MHz             |
| High Range        | 9 537  | 1 907.4 MHz         | 9 937  | 1 987.4 MHz           |

#### 5.1.1.3 FDD reference test frequencies for Operating Band III

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 8 563  | 1 712.6 MHz         | 9 038  | 1 807.6 MHz           |
| Mid Range         | 8 737  | 1 747.4 MHz         | 9 212  | 1 842.4 MHz           |
| High Range        | 8 912  | 1 782.4 MHz         | 9 387  | 1 877.4 MHz           |

#### 5.1.1.4 FDD reference test frequencies for Operating Band VI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 812    | 832.5 MHz           | 1 037  | 877.5 MHz             |
| Mid Range         | 4175   | 835.0MHz            | 4400   | 880.0 MHz             |
| High Range        | 837    | 837.5 MHz           | 1 062  | 882.5 MHz             |

# 5.1.2 TDD Mode Test frequencies

UTRA/TDD is designed to operate in one of three unpaired bands [12]. The reference test frequencies for the common test environment for each of the 3 operating bands are defined in the following tables:

#### 5.1.2.1 Standard TDD reference test frequencies (3.84 Mcps option)

|              | Ba                 | nd a        | Ba     | ınd b       | Band c |             |
|--------------|--------------------|-------------|--------|-------------|--------|-------------|
| Test         | UARFCN Frequency I |             | UARFCN | Frequency   | UARFCN | Frequency   |
| Frequency ID |                    | (UL and DL) |        | (UL and DL) |        | (UL and DL) |
| Low Range    | 9 513              | 1 902.6 MHz | 9 263  | 1 852.6 MHz | 9563   | 1912.6 MHz  |
| Mid Range    | 9 550              | 1 910 MHz   | 9 400  | 1 880 MHz   | 9600   | 1920 MHz    |
| High Range   | 9 587              | 1 917.4 MHz | 9 537  | 1 907.4 MHz | 9637   | 1927.4 MHz  |
| Low Range    | 10 063             | 2 012.6 MHz | 9 663  | 1 932.6 MHz |        |             |
| Mid Range    | 10 087             | 2 017.4 MHz | 9 800  | 1 960 MHz   |        |             |
| High Range   | 10 112             | 2 022.4 MHz | 9 937  | 1 987.4 MHz |        |             |

#### 5.1.2.2 Standard TDD reference test frequencies (1.28 Mcps option)

|              | Ba     | ınd a       | Ва     | and b       | Band c |             |
|--------------|--------|-------------|--------|-------------|--------|-------------|
| Test         | UARFCN | Frequency   | UARFCN | Frequency   | UARFCN | Frequency   |
| Frequency ID |        | (UL and DL) |        | (UL and DL) |        | (UL and DL) |
| Low Range    | 9504   | 1 900.8 MHz | 9254   | 1850.8 MHz  | 9554   | 1910.8 MHz  |
| Mid Range    | 9550   | 1 910 MHz   | 9400   | 1880 MHz    | 9600   | 1920 MHz    |
| High Range   | 9596   | 1 919.2 MHz | 9546   | 1909.2 MHz  | 9646   | 1929.2 MHz  |
| Low Range    | 10 054 | 2 010.8 MHz | 9654   | 1930.8 MHz  |        |             |
| Mid Range    | 10 087 | 2 017.4 MHz | 9800   | 1960 MHz    |        |             |
| High Range   | 10 121 | 2 024.2 MHz | 9946   | 1989.2 MHz  |        |             |

#### 5.2 Radio conditions

There are a number of radio propagation conditions defined in [2] for FDD mode and [5] for TDD mode, which may be required for a number of tests and hence can be considered as Common Conditions for FDD mode and TDD mode respectively.

NOTE: The System Simulator is required to support at least the normal Propagation Condition; support of the other propagation conditions is optional, depending on the specific test supported by the simulator.

#### 5.2.1 Normal Propagation Condition

This condition provides a connection between the System Simulator that is effectively free from Additive White Gaussian Noise, and where there are no fading or multipath effects. This condition will be used for Signalling tests.

#### 5.2.2 Static Propagation Condition

See [2] annex D for FDD.

For TDD mode, the propagation for the static performance measurement is an Additive White Gaussian Noise (AWGN) environment. No fading and multi-paths exist for this propagation model..

# 5.2.3 Multi-Path Fading Propagation Conditions

See [2] annex D for FDD and [5] annex D for TDD.

# 5.2.4 Moving Propagation Conditions

See [2] annex D for FDD. There are no currently defined Moving propagation conditions for TDD.

# 5.2.5 Birth-Death propagation conditions

See [2] annex D for FDD. There are no currently defined Birth-Death propagation conditions for TDD.

# 5.3 Standard test signals

Reference [11] and [12] for definitions of standard test signals.

# 5.4 Signal levels

The power levels given in the following clauses (5.4.1 and 5.4.2) apply for Signalling tests only. For RF tests power levels are given in [2] annex E for FDD and [5] annex E for TDD.

#### 5.4.1 Downlink Signal Levels

<FFS>

#### 5.4.2 Uplink Signal Levels

<FFS>

# 6 Reference System Configurations

This clause defines a number of Reference System Configurations which can be used for different tests.

#### 6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD), dual mode networks (FDD+TDD), or inter-RAT networks (FDD or TDD + GSM).

The following tables list the default parameters for 1 to 8 cell environments for testing.

To simplify TTCN implementation the total number of simultaneous cells in intra-frequency, inter-frequency and inter-RAT cell information lists (SIB11) have been limited to 8 and a specific cell numbering scheme have been defined to associate cell identifiers with type of cell.

- Cell 1, Cell 2, Cell 3, Cell 7 and Cell 8 are associated with FDD/TDD cells using frequency f1;
- Cell 4, Cell 5 and Cell 6 are associated with FDD/TDD cells using frequency f2; and
- Cell 9 and Cell 10 are associated with GSM cells.

For FDD and TDD intra- and inter-frequency cell environment Cell 1 to Cell 8 are used.

For FDD/GSM inter-RAT cell environment Cell 1 to Cell 6, Cell 9 and Cell 10 are used.

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

# 6.1.0a Default Master Information Block and Scheduling Block messages

#### 6.1.0a.1 Grouping SIBs for testing

| Mandatory in 34.108 Used in Idle Mode |                        | MIB, SB1, (SB2), SIB1, SIB2, SIB3, SIB5, SIB7, SIB11 |  |
|---------------------------------------|------------------------|------------------------------------------------------|--|
|                                       | Used in Connected Mode | SIB4, SIB6, SIB12                                    |  |
| Mandatory for FDD CPCH                |                        | SIB8, SIB9                                           |  |
| Mandatory for FDD DRAC                |                        | SIB10                                                |  |
| Mandatory for TDD                     |                        | SIB14, SIB17                                         |  |
| Mandatory for LCS                     |                        | SIB15, SIB15.1, SIB15.2, SIB15.3                     |  |
| Mandatory for ANSI-41 system          |                        | SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4            |  |
| Mandatory for InterSys HO             |                        | SIB16                                                |  |
| Mandatory for Cell reselection        |                        | SIB18                                                |  |

#### 6.1.0a.2 SIB configurations

Currently three SIB configurations are used, Configuration 1 is default for both UTRAN/FDD SYSTEM and UTRAN/FDD + GERAN SYSTEM, or both UTRAN/TDD SYSTEM and UTRAN/TDD + GERAN SYSTEM.

Configuration 2 is for test cases which need two S\_CCPCH or two PRACH. Configuration 3 is for inter-RAT handover test cases.

| Configuration 1 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5, SIB6, SIB7, SIB11, SIB12, SIB18 |
|-----------------|-------------------------------------------------------------------------|
| Configuration 2 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5, SIB7, SIB11, SIB12, SIB18       |
| Configuration 3 | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5, SIB7, SIB11, SIB16, SIB18       |

#### 6.1.0a.3 SIB default schedule

| Block<br>Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5 | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
|---------------|-----|-----|------|------|------|------|------|------|------|-------|-------|-------|
| SIB_REP       | 8   | 16  | 64   | 64   | 64   | 64   | 64   | 64   | 16   | 64    | 64    | 64    |
| SEG_<br>COUNT | 1   | 1   | 1    | 1    | 1    | 1    | 4    | 4    | 1    | 3     | 3     | 1     |

| Frame No /<br>SIB_POS | 0   | 2   | 4          | 6         | 8   | 10    | 12    | 14    |
|-----------------------|-----|-----|------------|-----------|-----|-------|-------|-------|
| Block Type            | MIB | SB1 | SIB7       | SIB6      | MIB | SIB6  | SIB6  | SIB6  |
|                       |     |     |            |           |     |       |       |       |
| Frame No /<br>SIB_POS | 16  | 18  | 20         | 22        | 24  | 26    | 28    | 30    |
| Block Type            | MIB | SB1 | SIB7/SIB3  | SIB1/SIB2 | MIB | SIB12 | SIB12 | SIB12 |
|                       |     |     |            |           |     |       |       |       |
| Frame No /<br>SIB_POS | 32  | 34  | 36         | 38        | 40  | 42    | 44    | 46    |
| Block Type            | MIB | SB1 | SIB7/SIB18 | SIB5      | MIB | SIB5  | SIB5  | SIB5  |
|                       |     |     |            |           |     |       |       |       |
| Frame No /<br>SIB_POS | 48  | 50  | 52         | 54        | 56  | 58    | 60    | 62    |
| Block Type            | MIB | SB1 | SIB7/SIB4  |           | MIB | SIB11 | SIB11 | SIB11 |

The SEG\_COUNT in the table specifies the maximum possible transport BCH blocks scheduled for broadcasting. The more contents a SIB has, the more transport BCH blocks are needed for broadcasting. In order to keep SIB repetition period, SIB\_REP, unchanged in different test cases, each specific SIB in the individual test cases after the PER encoding shall not exceed the SEG\_COUNT scheduled.

If the transport BCH blocks actually required for a SIB is less than the scheduled SEG\_COUNT, the no\_segment blocks shall be placed at the rest scheduled transport BCH blocks. In addition, the corresponding SEG\_COUNT IE value in MIB or in SB1 shall be set to the number of transport BCH blocks actually required.

Contents of Master Information Block PLMN type is the case of GSM-MAP

```
MIB value tag
Supported PLMN types
- PLMN type
                                               GSM-MAP
- PLMN identity
- MCC digit
                                               Set to the same Mobile Country Codes stored in the test
                                               USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
                                               Set to the same Mobile Network Codesstored in the test
 - MNC digit
                                               USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
ANSI-41 Core Network information
                                               Not Present
References to other system information blocks
and scheduling blocks
- References to other system information blocks
- Scheduling information
- CHOICE Value tag
                                               Cell Value Tag
 - Cell Value tag
 - Scheduling
 - SEG_COUNT
 - SIB_REP
                                               16
 - SIB_POS
 - SIB_POS offset info
                                               Not Present - use default
- SIB and SB type
                                               Scheduling Block 1
- Scheduling information
- CHOICE Value tag
                                               PLMN Value tag
- PLMN Value tag
- SEG_COUNT
- SIB_REP
                                               64
- SIB_POS
                                               22
- SIB_POS offset info
                                               Not Present - use default
- SIB and SB type
                                               System Information Type 1
- Scheduling information
- CHOICE Value tag
                                               Cell Value tag
- Cell Value tag
- SEG_COUNT
- SIB REP
                                               64
- SIB_POS
- SIB_POS offset info
                                               Not Present – use default
- SIB and SB type
                                               System Information Type 2
- Scheduling information
- CHOICE Value tag
                                               Cell Value tag
- Cell Value tag
- SEG_COUNT
- SIB_REP
                                               64
- SIB_POS
                                               20
- SIB_POS offset info
                                               Not Present – use default
- SIB and SB type
                                               System Information Type 3
- Scheduling information
- CHOICE Value tag
                                               Cell Value tag
- Cell Value tag
- SEG_COUNT
- SIB REP
                                               64
- SIB_POS
                                               52
- SIB_POS offset info
                                               Not Present – use default
- SIB and SB type
                                               System Information Type 4
- Scheduling information
 - CHOICE Value tag
                                                Cell Value tag
 - Cell Value tag
                                                1
 - SEG_COUNT
                                                4
 - SIB_REP
                                                64
 - SIB_POS
                                                38
 - SIB_POS offset info
 - SIB_OFF
                                                4
 - SIB_OFF
                                                2
```

| Ī | - SIB_OFF         | 2                         |
|---|-------------------|---------------------------|
|   | - SIB and SB type | System Information Type 5 |

#### Contents of Scheduling Block 1 (FDD and 1.28 Mcps TDD)

| Defends to the acceptant information blocks     | 1                          |
|-------------------------------------------------|----------------------------|
| - References to other system information blocks |                            |
| - Scheduling information                        |                            |
| - CHOICE Value tag                              | Cell Value tag             |
| - Cell Value tag                                | 1                          |
| - SEG_COUNT                                     | 4                          |
| - SIB_REP                                       | 64                         |
| - SIB_POS                                       | 6                          |
| - SIB_POS offset info                           |                            |
| - SIB_OFF                                       | 4                          |
| - SIB_OFF                                       | 2                          |
| - SIB_OFF                                       |                            |
|                                                 | Cyctom Information Type 6  |
| - SIB type SIBs only                            | System Information Type 6  |
| - Scheduling information                        | N . B                      |
| - CHOICE Value tag                              | Not Present                |
| - SEG_COUNT                                     | 1                          |
| - SIB_REP                                       | 16                         |
| - SIB_POS                                       | 4                          |
| - SIB_POS offset info                           | Not Present                |
| - SIB type SIBs only                            | System Information Type 7  |
| - Scheduling information                        | ,,                         |
| - CHOICE Value tag                              | Cell Value tag             |
| - Cell Value tag                                | 1                          |
| - SEG_COUNT                                     | 3                          |
| - SIB_REP                                       | 64                         |
| - SIB_POS                                       | 58                         |
| _                                               | 30                         |
| - SIB_POS offset info                           |                            |
| - SIB_OFF                                       | 2                          |
| - SIB_OFF                                       | 2                          |
| - SIB type SIBs only                            | System Information Type 11 |
| - Scheduling information                        |                            |
| - CHOICE Value tag                              | Cell Value tag             |
| - Cell Value tag                                | 1                          |
| - SEG_COUNT                                     | 3                          |
| - SIB_REP                                       | 64                         |
| - SIB_POS                                       | 26                         |
| - SIB_POS offset info                           |                            |
| - SIB OFF                                       | 2                          |
| - SIB_OFF                                       | $\frac{1}{2}$              |
| - SIB_OFF - SIB type SIBs only                  | System Information Type 12 |
|                                                 | Oystem information Type 12 |
| - Scheduling information                        | Call Value to a            |
| - CHOICE Value tag                              | Cell Value tag             |
| Cell Value tag                                  | 1                          |
| - SEG_COUNT                                     | 1                          |
| - SIB_REP                                       | 64                         |
| - SIB_POS                                       | 36                         |
| - SIB_POS offset info                           | Not Present                |
| - SIB type SIBs only                            | System Information Type 18 |

### Contents of Scheduling Block 1 (3.84 Mcps TDD)

| - References to other system information blocks |                |
|-------------------------------------------------|----------------|
| - Scheduling information                        |                |
| - CHOICE Value tag                              | Cell Value tag |
| - Cell Value tag                                | 1              |
| - SEG_COUNT                                     | 4              |
| - SIB_REP                                       | 128            |
| - SIB_POS                                       | 3              |
| - SIB_POS offset info                           |                |
| - SIB_OFF                                       | 4              |
| - SIB_OFF                                       | 2              |

| - SIB_OFF                | 2                          |
|--------------------------|----------------------------|
| - SIB type SIBs only     | System Information Type 6  |
| - Scheduling information | 3,111                      |
| - CHOICE Value tag       | Not Present                |
| - SEG_COUNT              | 1                          |
| - SIB_REP                | 16                         |
| - SIB_POS                | 2                          |
| - SIB_POS offset info    | Not Present                |
| - SIB type SIBs only     | System Information Type 7  |
| - Scheduling information | Cystem mornation Type 7    |
| - CHOICE Value tag       | Cell Value tag             |
| - Cell Value tag         | 1                          |
| - SEG_COUNT              | 3                          |
| - SIB REP                | 64                         |
| _                        | 29                         |
| - SIB_POS                | 29                         |
| - SIB_POS offset info    | 2                          |
| - SIB_OFF                | 2                          |
| - SIB_OFF                | System Information Type 11 |
| - SIB type SIBs only     | System information Type 11 |
| - Scheduling information | 0-111/-1                   |
| - CHOICE Value tag       | Cell Value tag             |
| - Cell Value tag         |                            |
| - SEG_COUNT              | 3                          |
| - SIB_REP                | 64                         |
| - SIB_POS                | 13                         |
| - SIB_POS offset info    |                            |
| - SIB_OFF                | 2                          |
| - SIB_OFF                | 2                          |
| - SIB type SIBs only     | System Information Type 12 |
| - Scheduling information |                            |
| - CHOICE Value tag       | Cell Value tag             |
| - Cell Value tag         | 1                          |
| - SEG_COUNT              | 1                          |
| - SIB_REP                | 64                         |
| - SIB_POS                | 54                         |
| - SIB_POS offset info    | Not Present - use default  |
| - SIB type SIBs only     | System Information Type 14 |
| - Scheduling information |                            |
| - CHOICE Value tag       | PLMN Value tag             |
| - PLMN Value tag         | 1                          |
| - SEG_COUNT              | 1                          |
| - SIB_REP                | 64                         |
| - SIB_POS                | 6                          |
| - SIB_POS offset info    | Not Present                |
| - SIB type SIBs only     | System Information Type 18 |

# 6.1.0a.4 SIB special schedules

#### 6.1.0a.4.1 SIB schedule for two S-CCPCH or two PRACH

FFS

#### 6.1.0a.4.2 SIB schedule for Inter-Rat Handover Test

FFS

# 6.1.0b Default System Information Block Messages

Contents of System Information Block type 1 (supported PLMN type is GSM-MAP)

| ON COMMADNIAG ( ) ( )                                | 14.4        | T T                                            |
|------------------------------------------------------|-------------|------------------------------------------------|
| - CN common GSM-MAP NAS system information           | A1          |                                                |
| - GSM-MAP NAS system information                     |             | 00 01H                                         |
| - CN domain system information                       |             |                                                |
| - CN domain identity                                 |             | PS                                             |
| - CHOICE CN Type                                     |             | GSM-MAP                                        |
| - CN domain specific NAS system information          |             |                                                |
| - GSM-MAP NAS system information                     |             | 05 00H                                         |
| - CN domain specific DRX cycle length coefficient    |             | 7                                              |
| - CN domain identity                                 |             | CS                                             |
| - CHOICE CN Type                                     |             | GSM-MAP                                        |
| - CN domain specific NAS system information          |             |                                                |
| - GSM-MAP NAS system information                     |             | 1E 01H                                         |
| - CN domain specific DRX cycle length coefficient    |             | 7                                              |
| - CN common GSM-MAP NAS system information           | A2          |                                                |
| - GSM-MAP NAS system information                     | 72          | 00 80H, Note 1                                 |
| - CN domain system information                       |             | oo oori, note i                                |
|                                                      |             | PS                                             |
| - CN domain identity                                 |             |                                                |
| - CHOICE CN Type                                     |             | GSM-MAP                                        |
| - CN domain specific NAS system information          |             | 00 0011 N 4 4                                  |
| - GSM-MAP NAS system information                     |             | 00 00H, Note 1                                 |
| - CN domain specific DRX cycle length coefficient    |             | 7                                              |
| - CN domain identity                                 |             | CS                                             |
| - CHOICE CN Type                                     |             | GSM-MAP                                        |
| - CN domain specific NAS system information          |             |                                                |
| - GSM-MAP NAS system information                     |             | 1E 01H                                         |
| - CN domain specific DRX cycle length coefficient    |             | 7                                              |
| - UE Timers and constants in idle mode               | A1, A2      |                                                |
| -T300                                                |             | 4000 milliseconds                              |
| -N300                                                |             | 3                                              |
| -T312                                                |             | 10 seconds                                     |
| - N312                                               |             | 1                                              |
| - UE Timers and constants in connected mode          |             | ·                                              |
| - T301                                               |             | Not Present (2000 milliseconds: default value) |
| - N301                                               |             | Not Present (2: default value)                 |
| - T302                                               |             | Not Present (2. default value)                 |
| - N302                                               |             | Not Present (4000 milliseconds, default value) |
|                                                      |             |                                                |
| - T304                                               |             | Not Present (2000 milliseconds: default value) |
| - N304<br>T005                                       |             | Not Present (2: default value)                 |
| - T305                                               |             | Not Present (30 minutes: default value)        |
| - T307                                               |             | Not Present (30 seconds: default value)        |
| - T308                                               |             | Not Present (160 milliseconds: default value)  |
| - T309                                               |             | Not Present (5 seconds: default value)         |
| - T310                                               |             | Not Present (160 milliseconds: default value)  |
| - N310                                               |             | Not Present (4: default value)                 |
| - T311                                               |             | Not Present (2000 milliseconds: default value) |
| - T312                                               |             | Not Present (1 seconds: default value)         |
| - N312                                               |             | Not Present (1: default value)                 |
| - T313                                               |             | Not Present (3 seconds: default value)         |
| - N313                                               |             | Not Present (20: default value)                |
| - T314                                               |             | Not Present (12 seconds: default value)        |
| - T315                                               |             | Not Present (180 seconds: default value)       |
| - N315                                               |             | Not Present (1: default value)                 |
| - T316                                               |             | Not Present (30 seconds: default value)        |
| - T317                                               |             | Not Present (180 seconds: default value)       |
| Note1 For Inter-RAT test cases GERAN and UTRAN       | calle uso : |                                                |
| INOLE I DI IIILEITIATI LESI CASES GENAIN AIIL UTRAIN | cello use ( | unierent LAC and NAC                           |

| Condition | Explanation                        |  |
|-----------|------------------------------------|--|
| A1        | FDD cell environment               |  |
| A2        | FDD/GSM inter-RAT cell environment |  |

### Contents of System Information Block type 2

| - URA identity list | Only 1 URA identity broadcasted |
|---------------------|---------------------------------|
| - URA identity      | 0000 0000 0000 0001B            |

### Contents of System Information Block type 3 (FDD)

| - SIB4 indicator                                 | TRUE                                |
|--------------------------------------------------|-------------------------------------|
| - Cell identity                                  | 0000 0000 0000 0000 0000 0000 0001B |
| - Cell selection and re-selection info           | 0000 0000 0000 0000 0000            |
| - Mapping info                                   | Not Present                         |
| - Cell selection and reselection quality measure | CPICH RSCP                          |
| - CHOICE mode                                    | FDD                                 |
| - Sintrasearch                                   | 16 dB                               |
| - Sintersearch                                   | 16 dB                               |
| - SsearchHCS                                     | Not Present                         |
| - RAT List                                       | This parameter is configurable      |
| - RAT identifier                                 | GSM                                 |
| - Ssearch,RAT                                    | -32 dB                              |
| - SHCS,RAT                                       | Not Present                         |
| - Slimit,SearchRAT                               | 0                                   |
| - Qqualmin                                       | Reference to table 6.1.1            |
| · ·                                              |                                     |
| - Qrxlevmin                                      | Reference to table 6.1.1            |
| - Qhyst1s                                        | 2 dB                                |
| - Qhyst2s                                        | Not Present                         |
| - Treselections                                  | 0 seconds                           |
| - HCS Serving cell information                   | Not Present                         |
| - Maximum allowed UL TX power                    | Reference to table 6.1.1            |
| - Cell Access Restriction                        |                                     |
| - Cell barred                                    | Not barred                          |
| - Intra-frequency cell re-selection indicator    | Not present                         |
| - T <sub>barred</sub>                            | Not present                         |
| - Cell Reserved for operator use                 | Not reserved                        |
| - Cell Reservation Extension                     | Not reserved                        |
| - Access Class Barred List                       |                                     |
| - Access Class Barred0                           | Not barred                          |
| - Access Class Barred1                           | Not barred                          |
| - Access Class Barred2                           | Not barred                          |
| - Access Class Barred3                           | Not barred                          |
| - Access Class Barred4                           | Not barred                          |
| - Access Class Barred5                           | Not barred                          |
| - Access Class Barred6                           | Not barred                          |
| - Access Class Barred7                           | Not barred                          |
| - Access Class Barred8                           | Not barred                          |
| - Access Class Barred9                           | Not barred                          |
| - Access Class Barred10                          | Not barred                          |
| - Access Class Barred11                          | Not barred                          |
| - Access Class Barred12                          | Not barred                          |
| - Access Class Barred13                          | Not barred                          |
| - Access Class Barred14                          | Not barred                          |
| - Access Class Barred15                          | Not barred                          |

Contents of System Information Block type 3 (3.84 Mcps TDD and 1.28 Mcps TDD)

| - SIB4 Indicator                                 | TRUE                           |
|--------------------------------------------------|--------------------------------|
| - Cell identity                                  | 0000 0000 0000 0000 0000 0001B |
| - Cell selection and re-selection info           |                                |
| - Mapping info                                   | Not present                    |
| - Cell selection and reselection quality measure | (no data)                      |
| - CHOICE mode                                    | TDD                            |
| - Sintrasearch                                   | 10 dB                          |
| - Sintersearch                                   | 10 dB                          |
| - SsearchHCS                                     | Not present                    |
| - RAT List                                       | This parameter is configurable |
| - RAT identifier                                 | GSM                            |
| - Ssearch,RAT                                    | -32 dB                         |
| - SHCS,RAT                                       | Not present                    |
| - Slimit,ShearchRAT                              | Not Present                    |
| - Qrxlevmin                                      | -103 dBm                       |
| - Qhyst1s                                        | 0 dB                           |
| - Treselections                                  | 0 seconds                      |
| - HCS Serving cell information                   | Not present                    |
| - Maximum allowed UL TX power                    | 30dBm                          |
| - Cell Access Restriction                        |                                |
| - Cell barred                                    | Not barred                     |
| - Intra-frequency cell re-selection indicator    | Not present                    |
| - T <sub>barred</sub>                            | Not present                    |
| - Cell Reserved for operator use                 | Not reserved                   |
| - Cell Reservation Extension                     | Not reserved                   |
| - Access Class Barred List                       |                                |
| - Access Class Barred0                           | Not barred                     |
| - Access Class Barred1                           | Not barred                     |
| - Access Class Barred2                           | Not barred                     |
| - Access Class Barred3                           | Not barred                     |
| - Access Class Barred4                           | Not barred                     |
| - Access Class Barred5                           | Not barred                     |
| - Access Class Barred6                           | Not barred                     |
| - Access Class Barred7                           | Not barred                     |
| - Access Class Barred8                           | Not barred                     |
| - Access Class Barred9                           | Not barred                     |
| - Access Class Barred10                          | Not barred                     |
| - Access Class Barred11                          | Not barred                     |
| - Access Class Barred12                          | Not barred                     |
| - Access Class Barred13                          | Not barred                     |
| - Access Class Barred14                          | Not barred                     |
| - Access Class Barred15                          | Not barred                     |

# Contents of System Information Block type 4 in connected mode (FDD)

| - Cell identity                                  | 0000 0000 0000 0000 0000 0000 0001B |
|--------------------------------------------------|-------------------------------------|
| - Cell selection and re-selection info           |                                     |
| - Mapping Info                                   | Not present                         |
| - Cell selection and reselection quality measure | CPICH RSCP                          |
| - CHOICE mode                                    | FDD                                 |
| - Sintrasearch                                   | 16 dB                               |
| - Sintersearch                                   | 16 dB                               |
| - SsearchHCS                                     | Not present                         |
| - RAT List                                       | This parameter is configurable      |
| - RAT identifier                                 | GSM                                 |
| - Ssearch,RAT                                    | -32 dB                              |
| - SHCS,RAT                                       | Not Present                         |
| - Slimit,SearchRAT                               | 0                                   |
| - Qqualmin                                       | Reference to table 6.1.1            |
| - Qrxlevmin                                      | Reference to table 6.1.1            |
| - Qhyst1s                                        | 2 dB                                |
| - Qhyst2s                                        | Not Present                         |
| - Treselections                                  | 0 seconds                           |
| - HCS Serving cell information                   | Not Present                         |
| - Maximum allowed UL TX power                    | Reference to table 6.1.1            |
| - Cell Access Restriction                        |                                     |
| - Cell barred                                    | Not barred                          |
| - Intra-frequency cell re-selection indicator    | Not present                         |
| - T <sub>barred</sub>                            | Not present                         |
| - Cell Reserved for operator use                 | Not reserved                        |
| - Cell Reservation Extension                     | Not reserved                        |
| - Access Class Barred List                       | Not present                         |

# Contents of System Information Block type 4 in connected mode (similar to SIB type3) (3.84 Mcps TDD and 1.28 Mcps TDD)

| Callidantity                                     | 0000 0000 0000 0000 0000 0000 0001B |
|--------------------------------------------------|-------------------------------------|
| - Cell identity                                  | 0000 0000 0000 0000 0000 0001 15    |
| - Cell selection and re-selection info           | l                                   |
| - Mapping info                                   | Not Present                         |
| - Cell selection and reselection quality measure | (no data)                           |
| - CHOICE mode                                    | TDD                                 |
| - Sintrasearch                                   | 10 dB                               |
| - Sintersearch                                   | 10 dB                               |
| - SsearchHCS                                     | Not present                         |
| - RAT List                                       | This parameter is configurable      |
| - RAT identifier                                 | GSM                                 |
| - Ssearch,RAT                                    | -32 dB                              |
| - SHCS,RAT                                       | Not present                         |
| - S <sub>limit,ShearchRAT</sub>                  | Not Present                         |
| - Qrxlevmin                                      | -103 dBm                            |
| - Qhyst1s                                        | 0 dB                                |
| - Treselections                                  | 0 seconds                           |
| - HCS Serving cell information                   | Not present                         |
| - Maximum allowed UL TX power                    | 30dBm                               |
| - Cell Access Restriction                        |                                     |
| - Cell barred                                    | Not barred                          |
| - Intra-frequency cell re-selection indicator    | Not present                         |
| - T <sub>barred</sub>                            | Not present                         |
| - Cell Reserved for operator use                 | Not reserved                        |
| - Cell Reservation Extension                     | Not reserved                        |
| - Access Class Barred List                       | Not present                         |

### Contents of System Information Block type 5 (FDD)

| - SIB6 indicator                            | TRUE                                                        |
|---------------------------------------------|-------------------------------------------------------------|
| - PICH Power offset                         | -5 dB                                                       |
| - CHOICE Mode                               | FDD                                                         |
| - AICH Power offset                         | 5 dB                                                        |
| - Primary CCPCH info                        | Not present                                                 |
|                                             | Not present                                                 |
| - PRACH system information list             |                                                             |
| - PRACH system information                  |                                                             |
| - PRACH info                                |                                                             |
| - CHOICE mode                               | FDD                                                         |
| - Available Signature                       | '0000 0000 1111 1111'B                                      |
| - Available SF                              | 64                                                          |
| - Preamble scrambling code number           | 0                                                           |
| - Puncturing Limit                          | 1.00                                                        |
|                                             |                                                             |
| - Available Sub Channel number              | '1111 1111 1111'B                                           |
| - Transport Channel Identity                | 15                                                          |
| - RACH TFS                                  |                                                             |
| - CHOICE Transport channel type             | Common transport channels                                   |
| - Dynamic Transport format information      |                                                             |
| - RLC size                                  | 168                                                         |
| - Number of TB and TTI List                 |                                                             |
| - Number of Transport blocks                | 1                                                           |
|                                             | FDD                                                         |
| - CHOICE Mode                               |                                                             |
| - CHOICE Logical Channel List               | Configured                                                  |
| - RLC size                                  | 360                                                         |
| - Number of TB and TTI List                 |                                                             |
| - Number of Transport blocks                | 1                                                           |
| - CHOICE Mode                               | FDD                                                         |
| - CHOICE Logical Channel List               | Configured                                                  |
| - Semi-static Transport Format information  | Comigaroa                                                   |
|                                             | 20 mg                                                       |
| - Transmission time interval                | 20 ms                                                       |
| - Type of channel coding                    | Convolutional                                               |
| - Coding Rate                               | 1/2                                                         |
| - Rate matching attribute                   | 150                                                         |
| - CRC size                                  | 16                                                          |
| - RACH TFCS                                 |                                                             |
| - CHOICE TFCI signalling                    | Normal                                                      |
| - TFCI Field 1 information                  | Tomas .                                                     |
|                                             | Complete reconfiguration                                    |
| - CHOICE TFCS representation                | Complete reconfiguration                                    |
| - TFCS complete reconfiguration information |                                                             |
| - CHOICE CTFC Size                          | 2 bit                                                       |
| - CTFC information                          | 0                                                           |
| - Power offset information                  |                                                             |
| - CHOICE Gain Factors                       | Computed Gain Factor                                        |
| - Reference TFC ID                          | 0                                                           |
| - CHOICE Mode                               | FDD                                                         |
| - Power offset Pp-m                         | 0 dB                                                        |
|                                             |                                                             |
| - CTFC information                          | 1                                                           |
| - Power offset information                  |                                                             |
| - CHOICE Gain Factors                       | Signalled Gain Factor                                       |
| - CHOICE mode                               | FDD                                                         |
| - Gain factor ßc                            | 11                                                          |
| - Gain factor ßd                            | 15                                                          |
| - Reference TFC ID                          | 0                                                           |
| - CHOICE Mode                               | FDD                                                         |
|                                             | 0 dB                                                        |
| - Power offset Pp-m                         | U UD                                                        |
| - PRACH partitioning                        |                                                             |
| - Access Service Class                      |                                                             |
| - ASC Setting                               | Not Present                                                 |
| - ASC Setting                               |                                                             |
| - CHOICE mode                               | FDD                                                         |
| - Available signature Start Index           | 0 (ASC#1)                                                   |
| - Available signature End Index             | 7 (ASC#1)                                                   |
| - Assigned Sub-Channel Number               | (AGO#1)                                                     |
| Assigned odb-channel Nulliber               |                                                             |
|                                             | The first/ leftmost bit of the bit string contains the most |
| 1000 0 111                                  | significant bit of the Assigned Sub-Channel Number.         |
| - ASC Setting                               | Not Present                                                 |

| - ASC Setting - Assigned Sub-Channel Number  - Assigned Sub-Channel Number  - ASC Setting - CHOICE mode - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number  - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature Find  |                                                   |                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------|
| - Available signature Start Index - Available signature Start Index - Assigned Sub-Channel Number - Assigned Sub-Channel Number - Assigned Sub-Channel Number - Assigned Sub-Channel Number - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Persistence scaling factor - Persistenc | - ASC Setting                                     |                                                             |
| - Available signature End Index - Assigned Sub-Channel Number  - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signatu | - CHOICE mode                                     | FDD                                                         |
| - Available signature End Index - Assigned Sub-Channel Number  - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signatu | - Available signature Start Index                 | 0 (ASC#3)                                                   |
| - Assigned Sub-Channel Number  - ASC Setting - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Assigned Sub-Channel Number  - Assigned Sub-Channel Number  - Assigned Sub-Channel Number  - Assigned Sub-Channel Number  - ASC Setting - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available |                                                   |                                                             |
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| - Assigned Sub-Channel Number  - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signatu |                                                   |                                                             |
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| - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number  - Persistence scaling factor - AC-to-ASC mapping | - ASC Setting                                     |                                                             |
| - CHOICE mode - Available signature Start Index - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number  - Persistence scaling factor - Persistence sc |                                                   | Not i rooont                                                |
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| - Assigned Sub-Channel Number  - Persistence scaling factor - Acto-ASC mapping table - Ac-to-ASC mapping - AC-to-ASC maping - A |                                                   |                                                             |
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| - Persistence scaling factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |                                                             |
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| - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Ac-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC m |                                                   |                                                             |
| - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - Ac-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC m | - Persistence scaling factor                      | 0.9 (for ASC#4)                                             |
| - Persistence scaling factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - Persistence scaling factor                      |                                                             |
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| - AC-to-ASC mapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |                                                             |
| - AC-to-ASC mapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   | 0.9 (101 A3C#1)                                             |
| - AC-to-ASC mapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   | - ( )                                                       |
| - AC-to-ASC mapping 3 (AC11) - AC-to-ASC mapping 3 (AC12) - AC-to-ASC mapping 2 (AC13) - AC-to-ASC mapping 1 (AC14) - AC-to-ASC mapping 0 (AC15) - CHOICE mode FDD - Primary CPICH TX power 31 - Constant value - 10 - PRACH power offset - Power Ramp Step 3dB - Preamble Retrans Max 4 - RACH transmission parameters - Mmax 2 - NB01min 3 slot 10 slot - NB01min 10 slot - AICH Info - Channelisation code 3 - STTD indicator FALSE - AICH transmission triming - Secondary CCPCH system information - Secondary CPCH info - CHOICE mode FDD - Secondary Scrambling code FLSE - Spreading factor 64 - Code number 1 - Pilot symbol existence FALSE - TFCI existence Fixed or Flexible position - Timing offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - AC-to-ASC mapping                               |                                                             |
| - AC-to-ASC mapping 2 (AC12) - AC-to-ASC mapping 1 (AC14) - AC-to-ASC mapping 1 (AC14) - AC-to-ASC mapping 0 (AC15) - CHOICE mode FDD - Primary CPICH TX power 31 - Constant value - 10 - PRACH power offset - 10 - Preamble Retrans Max 4 - RACH transmission parameters - 10 - PMBO1 min 3 slot - 10 s | - AC-to-ASC mapping                               | 5 (AC10)                                                    |
| - AC-to-ASC mapping 2 (AC12) - AC-to-ASC mapping 1 (AC14) - AC-to-ASC mapping 1 (AC14) - AC-to-ASC mapping 0 (AC15) - CHOICE mode FDD - Primary CPICH TX power 31 - Constant value - 10 - PRACH power offset - 10 - Preamble Retrans Max 4 - RACH transmission parameters - 10 - PMBO1 min 3 slot - 10 s | - AC-to-ASC mapping                               | 4 (AC11)                                                    |
| - AC-to-ASC mapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |                                                             |
| - AC-to-ASC mapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |                                                             |
| - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01 min - NB01 max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary Scrambling code - Secondary Scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |                                                             |
| - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary Scrambling code - STTD indicator - CHOICE mode - Secondary Scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - Fixed or Flexible position - TFCI existence - Fixed or Flexible position - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  FDD - TFC Smith retail reta |                                                   |                                                             |
| - Primary CPICH TX power  - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01 min - NB01 max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH system information - Secondary Scrambling code - STTD indicator - COde number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |                                                             |
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| - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  3dB  4  4  4  4  4  4  4  4  4  4  4  4  4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   | -10                                                         |
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| - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Spreading factor - Pilot symbol existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  4  4  4  4  4  4  4  4  4  4  4  4  4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   | 24D                                                         |
| - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Spreading factor - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  2 3 slot 10 slot  - Salot 10 slot  - TALSE  - SALSE - FALSE - TFUE (default value) - Flexible (default value) - Flexible (default value) - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  - Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |                                                             |
| - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - StTD indicator - Spreading factor - Spreading factor - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  2 3 slot - 10 slot -  |                                                   | 4                                                           |
| - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  3 slot 10 slot  10 slot  11 FALSE  64  FALSE  FALSE  64  7 FUD  64  7 FUD  64  7 FALSE  7 FUE (default value) Flexible (default value) Flexible (default value) Flexible (default value) Flexible (default value) For present Absence of this IE is equivalent to default value 0  (This IE is repeated for TFC number for PCH and FACH.) Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - RACH transmission parameters                    |                                                             |
| - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  10 slot  3 FALSE  5 FALSE  FALSE  64  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - Mmax                                            | 2                                                           |
| - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  10 slot  3 FALSE  5 FALSE  FALSE  64  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - NB01min                                         |                                                             |
| - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  - STTD indicator - AICH TRANSE  - FALSE - FDD - Not Present - FALSE - FALSE - FALSE - TRUE (default value) - Flexible (default value) - Flexible (default value) - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  - Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                 |                                                             |
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| - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  FALSE - TRUE (default value) - Flexible (default value) - Flexible (default value) - TRUE (in the property of t |                                                   | · = =                                                       |
| - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  64  TRUE (default value) Flexible (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |                                                             |
| - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  1 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |                                                             |
| - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  FALSE TRUE (default value) Flexible (default value)  Flexible (default value)  For the properties of this IE is equivalent to default value 0  (This IE is repeated for TFC number for PCH and FACH.)  Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   |                                                             |
| - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   | 1                                                           |
| - TFCI existence - Fixed or Flexible position - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | - Pilot symbol existence                          | FALSE                                                       |
| - Fixed or Flexible position - Timing offset  Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.)  Normal  - TFCI Field 1 information - CHOICE TFCS representation  Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.)  Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   | TRUE (default value)                                        |
| - Timing offset  Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.)  - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |                                                             |
| Absence of this IE is equivalent to default value 0  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  Absence of this IE is equivalent to default value 0  (This IE is repeated for TFC number for PCH and FACH.)  Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |                                                             |
| - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  (This IE is repeated for TFC number for PCH and FACH.)  Normal  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - filling onset                                   |                                                             |
| - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |                                                             |
| - TFCI Field 1 information - CHOICE TFCS representation  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   | (This IE is repeated for TFC number for PCH and FACH.)      |
| - TFCI Field 1 information - CHOICE TFCS representation  Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - CHOICE TFCI signalling                          | Normal                                                      |
| - CHOICE TFCS representation Complete reconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   | Complete reconfiguration                                    |
| T - T OO OOTIDIEGE TEOOTIIIQUTALIOH HIIOHHALIOH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   | Complete reconligatation                                    |
| 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 11 00 complete reconniguration information      | I                                                           |

| OLIGIOE OTEO O:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - CHOICE CTFC Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4 bit                                                                                                                                                       |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0                                                                                                                                                           |
| - Power offset information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not Present                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NOT FIESEIII                                                                                                                                                |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                                                                                                                                           |
| <ul> <li>Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                 |
| <ul> <li>CTFC information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                           |
| <ul> <li>Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                 |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           |
| - Power offset information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not Present                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4                                                                                                                                                           |
| <ul> <li>Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                 |
| <ul> <li>CTFC information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                                                                                                                                                           |
| <ul> <li>Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                 |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6                                                                                                                                                           |
| - Power offset information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not Present                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8                                                                                                                                                           |
| <ul> <li>Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                 |
| - FACH/PCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                             |
| - TFS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (PCH)                                                                                                                                                       |
| - CHOICE Transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Common transport channels                                                                                                                                   |
| - Dynamic Transport format information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                             |
| - RLC Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 240                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L-TU                                                                                                                                                        |
| - Number of TB and TTI List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                             |
| - Number of Transport blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                                                                                                                                           |
| <ul> <li>Number of Transport blocks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                                                                                                                                           |
| - CHOICE Logical Channel List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ALL                                                                                                                                                         |
| - Semi-static Transport Format information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                             |
| - Transmission time interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 ms                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Convolutional                                                                                                                                               |
| - Type of channel coding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |
| - Coding Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1/2                                                                                                                                                         |
| - Rate matching attribute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 230                                                                                                                                                         |
| - CRC size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16 bit                                                                                                                                                      |
| - Transport Channel Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12 (for PCH)                                                                                                                                                |
| - CTCH indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FALSE                                                                                                                                                       |
| - TFS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (FACH)                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| - CHOICE Transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Common transport channels                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |
| - Dynamic Transport format information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                             |
| Dynamic Transport format information     RLC Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 168                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 168                                                                                                                                                         |
| - RLC Size<br>- Number of TB and TTI List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                             |
| <ul><li>RLC Size</li><li>Number of TB and TTI List</li><li>Number of Transport blocks</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                                                                                                                           |
| <ul><li>RLC Size</li><li>Number of TB and TTI List</li><li>Number of Transport blocks</li><li>Number of Transport blocks</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0<br>1                                                                                                                                                      |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0<br>1<br>2                                                                                                                                                 |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0<br>1                                                                                                                                                      |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0<br>1<br>2<br>ALL                                                                                                                                          |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0<br>1<br>2<br>ALL<br>10 ms                                                                                                                                 |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0<br>1<br>2<br>ALL                                                                                                                                          |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 1 2 ALL 10 ms Convolutional                                                                                                                               |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 1 2 ALL 10 ms Convolutional 1/2                                                                                                                           |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 1 2 ALL 10 ms Convolutional 1/2 220                                                                                                                       |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit                                                                                                                |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                               | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH)                                                                                                  |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                       | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE                                                                                            |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH)                                                                                     |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                       | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE                                                                                            |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> </ul>                                                                                                                                                                                                                                                                                                   | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH)                                                                                     |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>                                                                                                                                                                                                                                                     | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels                                                           |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> </ul>                                                                                                                                                                                                                                   | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH)                                                                                     |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> </ul>                                                                                                                                                                                                                                    | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels                                                           |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> </ul>                                                                                                                                                                                                | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0                                                     |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> </ul>                                                                                                                                                            | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1                                                   |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> </ul>                                                                                                                       | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0                                                     |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> </ul>                                                                                                         | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1                                                   |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> </ul>                                                                                                                       | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1                                                   |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>                                 | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms                                         |
| <ul> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> </ul> | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo                                   |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute                                                                                                                                    | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo 130                               |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size                                                                                                                         | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo 130 16bit                         |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity                                                                                            | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH)           |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator                                                                           | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo 130 16bit                         |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity                                                                                            | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH)           |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator                                                                           | 0 1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH)           |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info                                                               | 0 1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130 16bit 14 (for FACH) FALSE |

| - Number of PI per frame      | 18          |
|-------------------------------|-------------|
| - STTD indicator              | FALSE       |
| - CBS DRX Level 1 information | Not Present |

# Contents of System Information Block type 5 (3.84 Mcps TDD)

| - SIB6 indicator                           | TRUE                                |
|--------------------------------------------|-------------------------------------|
| - PICH Power offset                        | -5 dB                               |
| - CHOICE Mode                              | TDD                                 |
| - PUSCH system information                 | Not Present                         |
| - PDSCH system information                 | Not Present                         |
| - TDD open loop power control              |                                     |
| - Primary CCPCH Tx Power                   | 30 dbm                              |
| - CHOICE TDD option                        | 3.84 Mcps TDD /REL-4/               |
| - Alpha                                    | (1/8)                               |
| - PRACH Constant Value                     | -10                                 |
| - DPCH Constant Value                      | -10                                 |
| - PUSCH Constant Value                     | -10                                 |
| - UE positioning related parameters        | Not Present /REL-4/                 |
| - Primary CCPCH info                       |                                     |
| - CHOICE mode                              | TDD                                 |
| - CHOICE TDD option                        | 3.84 Mcps TDD /REL-4/               |
| - CHOICE SyncCase                          | Sync Case 2                         |
| - Timeslot                                 | 0                                   |
| - Cell parameters ID                       | Not Present                         |
| - SCTD indicator                           | FALSE                               |
| - PRACH system information list            |                                     |
| - PRACH system information                 |                                     |
| - PRACH info                               |                                     |
| - CHOICE mode                              | TDD                                 |
| - CHOICE TDD option                        | 3.84 Mcps TDD /REL-4/               |
| - Timeslot number                          | 14                                  |
| - PRACH Channelisation Code List           |                                     |
| - CHOICE SF                                | SF8                                 |
| - Channelisation Code List                 | 0.0                                 |
| - Channelisation Code                      | 8/1                                 |
| - Channelisation Code                      | 8/2                                 |
| - Channelisation Code                      | 8/3                                 |
| - Channelisation Code                      | 8/4                                 |
| - PRACH Midamble                           | Direct                              |
| - PNBSCH allocation                        | Not Present /REL-4/                 |
|                                            | 15                                  |
| - Transport Channel Identity - RACH TFS    | 15                                  |
| - CHOICE Transport channel type            | Common transport abannals           |
|                                            | Common transport channels           |
| - Dynamic Transport format information     | Deference clause 6.10 December Cet  |
| - RLC size                                 | Reference clause 6.10 Parameter Set |
| - Number of TB and TTI List                | Reference clause 6.10 Parameter Set |
| - Number of Transport blocks               | Reference clause 6.10 Parameter Set |
| - CHOICE Mode                              | TDD                                 |
| - Transmission Time Interval               | Not Present                         |
| - CHOICE Logical Channel List              | Configured                          |
| - Semi-static Transport Format information | Deference eleves C.40 Dever-to- C-t |
| - Transmission time interval               | Reference clause 6.10 Parameter Set |
| - Type of channel coding                   | Reference clause 6.10 Parameter Set |
| - Coding Rate                              | Reference clause 6.10 Parameter Set |
| - Rate matching attribute                  | Reference clause 6.10 Parameter Set |
| - CRC size                                 | Reference clause 6.10 Parameter Set |
| - RACH TFCS                                | Not present                         |
| - PRACH partitioning                       |                                     |
| - Access Service Class                     | (                                   |
| - ASC Settings                             | (ASC#0)                             |
| - CHOICE mode                              | TDD                                 |
| - CHOICE TDD option                        | 3.84 Mcps TDD                       |
| - Available Channelisation codes indices   | Not Present (Default all)           |
| - CHOICE subchannel size                   | Size1                               |
| - Available Subchannels                    | null                                |
| - ASC Settings                             | (ASC#1)                             |
|                                            |                                     |

| - CHOICE mode                                                  | TDD                                 |
|----------------------------------------------------------------|-------------------------------------|
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |
| - Available Channelisation codes indices                       | Not Present (Default all)           |
| - CHOICE subchannel size                                       | Size1                               |
| - Available Subchannels                                        | null                                |
| - ASC Settings                                                 | (ASC#2)                             |
| - CHOICE mode                                                  | TDD                                 |
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |
| <ul> <li>Available Channelisation codes indices</li> </ul>     | Not Present (Default all)           |
| - CHOICE subchannel size                                       | Size1                               |
| - Available Subchannels                                        | null                                |
| - ASC Settings                                                 | (ASC#3)                             |
| - CHOICE mode                                                  | TDD                                 |
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |
| - Available Channelisation codes indices                       | Not Present (Default all)           |
| - CHOICE subchannel size                                       | Size1                               |
| - Available Subchannels                                        | null                                |
| - ASC Settings                                                 | (ASC#4)                             |
| - CHOICE mode<br>- CHOICE TDD option                           | TDD<br> 3.84 Mcps TDD               |
| - Available Channelisation codes indices                       | Not Present (Default all)           |
| - CHOICE subchannel size                                       | Size1                               |
| - Available Subchannels                                        | null                                |
| - ASC Settings                                                 | (ASC#5)                             |
| - CHOICE mode                                                  | TDD                                 |
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |
| - Available Channelisation codes indices                       | Not Present (Default all)           |
| - CHOICE subchannel size                                       | Size1                               |
| - Available Subchannels                                        | null                                |
| - ASC Settings                                                 | (ASC#6)                             |
| - CHOICE mode                                                  | TDD                                 |
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |
| <ul> <li>Available Channelisation codes indices</li> </ul>     | Not Present (Default all)           |
| - CHOICE subchannel size                                       | Size1                               |
| - Available Subchannels                                        | null                                |
| - Persistence scaling factors                                  |                                     |
| - Access Service Class                                         | 0.0 (for ASC#2)                     |
| Persistence scaling factor     Persistence scaling factor      | 0.9 (for ASC#2)<br>0.9 (for ASC#3)  |
| - Persistence scaling factor                                   | 0.9 (for ASC#4)                     |
| - Persistence scaling factor                                   | 0.9 (for ASC#5)                     |
| - Persistence scaling factor                                   | 0.9 (for ASC#6)                     |
| - AC-to-ASC mapping                                            |                                     |
| - AC-to-ASC mapping table                                      |                                     |
| - AC-to-ASC mapping                                            | 6 (AC0-9)                           |
| - AC-to-ASC mapping                                            | 5 (AC10)                            |
| - AC-to-ASC mapping                                            | 4 (AC11)                            |
| - AC-to-ASC mapping                                            | 3 (AC12)                            |
| - AC-to-ASC mapping                                            | 2 (AC13)                            |
| - AC-to-ASC mapping                                            | 1 (AC14)                            |
| - AC-to-ASC mapping                                            | 0 (AC15)                            |
| - CHOICE mode                                                  | TDD (no data)                       |
| - Secondary CCPCH system information                           |                                     |
| - Secondary CCPCH system information<br>- Secondary CCPCH info |                                     |
| - CHOICE mode                                                  | TDD                                 |
| - Offset                                                       | 0                                   |
| - Common timeslot info                                         |                                     |
| - 2 <sup>nd</sup> interleaving mode                            | Frame                               |
| - TFCI coding                                                  | Reference clause 6.10 Parameter Set |
| - Puncturing limit                                             | Reference clause 6.10 Parameter Set |
| - Repetition period                                            | Not Present (MD "1")                |
| - Repetition length                                            | Not present (empty)                 |
| - Individual timeslot info                                     |                                     |
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |
| - Timeslot number                                              | 1                                   |
| - TFCI existence                                               | Reference clause 6.10 Parameter Set |
| - Midamble Shift and burst type                                |                                     |
| - CHOICE TDD option                                            | 3.84 Mcps TDD                       |

- CHOICE Burst Type
- Midamble Allocation Mode
- Midamble configuration burst type 1 and 3
- Midamble Shift
- CHOICE TDD option
- no data
- Code List
- Channelisation Code
- TFCS
  - -CHOICE TFCI signalling
  - Normal
  - TFCI Field 1 information
  - CHOICE TFCS representation
  - TFCS complete information
  - CHOICE CTFC Size
  - CTFC information
  - Power offset information
- FACH/PCH information
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- TES
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

Type 1

Default midamble

4

Not Present 3.84 Mcps TDD

(This IE is repeated for Code number for PCH and FACH)

(This IE is repeated for TFC number for PCH and FACH.)

Complete reconfiguration

Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set Not Present

(PCH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set 12 (for PCH)

FALSE (FACH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD

Reference clause 6.10 Parameter Set ALL

Reference clause 6.10 Parameter Set 13 (for FACH)

FALSE (FACH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD ALL

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

| - Transport Channel Identity                      | 14 (for FACH) |
|---------------------------------------------------|---------------|
| - CTCH indicator                                  | FALSE         |
| - PICH info                                       |               |
| - CHOICE mode                                     | TDD           |
| - CHOICE TDD option                               | 3.84 Mcps TDD |
| - Timeslot number                                 | 0             |
| <ul> <li>Midamble shift and burst type</li> </ul> |               |
| - CHOICE TDD option                               | 3.84 Mcps TDD |
| - CHOICE Burst Type                               | Type 1        |
| - Midamble Shift                                  | 0             |
| - Channelisation code                             | 16/16         |
| - Repetition period/length                        | 64/2          |
| - Offset                                          | 0             |
| - Paging indicator length                         | 4             |
| - N <sub>GAP</sub>                                | 4             |
| - N <sub>PCH</sub>                                | 2             |
| - CBS DRX Level 1 information                     | Not Present   |

Contents of System Information Block type 5 (1.28 Mcps TDD)

| - SIB6 indicator                                    | TRUE                                   |
|-----------------------------------------------------|----------------------------------------|
| - PICH Power offset                                 | -5 dB                                  |
| - CHOICE Mode                                       | TDD                                    |
| - PUSCH system information                          | Not Present                            |
| - PDSCH system information                          | Not Present                            |
| - TDD open loop power control                       |                                        |
| - Primary CCPCH Tx Power                            | 30 dbm                                 |
| - CHOICE TDD option                                 | 1.28 Mcps TDD /REL-4/                  |
| - no data                                           |                                        |
| - Primary CCPCH info                                |                                        |
| - CHOICE mode                                       | TDD                                    |
| - CHOICE TDD option                                 | 1.28 Mcps TDD /REL-4/                  |
| - TSTD indicator                                    | FALSE                                  |
| - Cell parameters ID                                | Not Present                            |
| - Block SCTD indicator                              | FALSE                                  |
| - PRACH system information list                     |                                        |
| - PRACH system information                          |                                        |
| - PRACH info                                        |                                        |
| - CHOICE mode                                       | TDD                                    |
| - CHOICE TDD option                                 | 1.28 Mcps TDD /REL-4/                  |
| - SYNC_UL info                                      |                                        |
| - SYNC_UL codes bitmap                              | "1111111"                              |
| - UL Target SIR                                     | 10 dB                                  |
| - Power Ramping Step                                | 3 dB                                   |
| - Max SYNC_UL Transmissions                         | 8                                      |
| - Mmax                                              | 32                                     |
| - PRACH definition                                  |                                        |
| - Timeslot number                                   | 4.00 Maria TDD //DEL 4/                |
| - CHOICE TDD option                                 | 1.28 Mcps TDD /REL-4/                  |
| - Timeslot number                                   | 1                                      |
| - PRACH Channelisation Code List                    |                                        |
| - Channelisation Code List                          | (0/4)                                  |
| - Channelisation Code                               | (8/1)                                  |
| - Midamble Shift and burst type                     | 1 20 Mana TDD /DEL 4/                  |
| - CHOICE TDD option - Midamble Allocation Mode      | 1.28 Mcps TDD /REL-4/ Default midamble |
| - Midamble Anocation Mode  - Midamble configuration | 8                                      |
| - Midamble Configuration - Midamble Shift           | Not present                            |
| - FPACH info                                        | Not present                            |
| - Timeslot number                                   | 6                                      |
| - Channelisation code                               | (16/16)                                |
| - Midamble Shift and burst type                     | (10/10)                                |
| - CHOICE TDD option                                 | 1.28 Mcps TDD /REL-4/                  |
| - Midamble Allocation Mode                          | Common Midamble                        |
| - Midamble configuration                            | 8                                      |
| - Midamble Shift                                    | Not present                            |
| - WT                                                | 4                                      |
| - PNBSCH allocation                                 | Not Present /REL-4/                    |
| - Transport Channel Identity                        | 15                                     |
| - RACH TFS                                          |                                        |
| - CHOICE Transport channel type                     | Common transport channels              |
| - Dynamic Transport format information              |                                        |
| - RLC size                                          | Reference clause 6.10 Parameter Set    |
| - Number of TB and TTI List                         | Reference clause 6.10 Parameter Set    |
| - Number of Transport blocks                        | Reference clause 6.10 Parameter Set    |
| - CHOICE Mode                                       | TDD                                    |
| - Transmission Time Interval                        | Not Present                            |
| - CHOICE Logical Channel List                       | Configured                             |
| - Semi-static Transport Format information          |                                        |
| - Transmission time interval                        | Reference clause 6.10 Parameter Set    |
| - Type of channel coding                            | Reference clause 6.10 Parameter Set    |
| - Coding Rate                                       | Reference clause 6.10 Parameter Set    |
| - Rate matching attribute                           | Reference clause 6.10 Parameter Set    |
| - CRC size                                          | Reference clause 6.10 Parameter Set    |
| - RACH TFCS                                         | Not present                            |
| - PRACH partitioning                                |                                        |
|                                                     |                                        |

- Repetition period

| - Access Service Class                                                                             | (100 %)                             |
|----------------------------------------------------------------------------------------------------|-------------------------------------|
| - ASC Settings                                                                                     | (ASC#0)                             |
| - CHOICE mode                                                                                      | TDD                                 |
| - CHOICE TDD option                                                                                | 1.28 Mcps TDD                       |
| - Available SYNC_UL codes indices                                                                  | "11111111"<br>Siza1                 |
| - CHOICE subchannel size                                                                           | Size1<br>Null                       |
| - Available Subchannels                                                                            |                                     |
| <ul><li>- ASC Settings</li><li>- CHOICE mode</li></ul>                                             | (ASC#1)<br>TDD                      |
| - CHOICE TDD option                                                                                | 1.28 Mcps TDD                       |
| - Available SYNC_UL codes indices                                                                  | "11111111"                          |
| - CHOICE subchannel size                                                                           | Size1                               |
| - Available Subchannels                                                                            | Null                                |
| - ASC Settings                                                                                     | (ASC#2)                             |
| - CHOICE mode                                                                                      | TDD                                 |
| - CHOICE TDD option                                                                                | 1.28 Mcps TDD                       |
| <ul> <li>Available SYNC_UL codes indices</li> </ul>                                                | "11111 <sup>1</sup> 11"             |
| <ul> <li>CHOICE subchannel size</li> </ul>                                                         | Size1                               |
| <ul> <li>Available Subchannels</li> </ul>                                                          | Null                                |
| - ASC Settings                                                                                     | (ASC#3)                             |
| - CHOICE mode                                                                                      | TDD                                 |
| - CHOICE TDD option                                                                                | 1.28 Mcps TDD                       |
| - Available SYNC_UL codes indices                                                                  | "11111111"                          |
| - CHOICE subchannel size                                                                           | Size1                               |
| - Available Subchannels                                                                            | Null                                |
| - ASC Settings                                                                                     | (ASC#4)                             |
| - CHOICE mode - CHOICE TDD option                                                                  | TDD<br>1.28 Mcps TDD                |
| - Available SYNC_UL codes indices                                                                  | "11111111"                          |
| - CHOICE subchannel size                                                                           | Size1                               |
| - Available Subchannels                                                                            | Null                                |
| - ASC Settings                                                                                     | (ASC#5)                             |
| - CHOICE mode                                                                                      | TDD                                 |
| - CHOICE TDD option                                                                                | 1.28 Mcps TDD                       |
| <ul> <li>Available SYNC_UL codes indices</li> </ul>                                                | "11111 <sup>1</sup> 11"             |
| <ul> <li>CHOICE subchannel size</li> </ul>                                                         | Size1                               |
| - Available Subchannels                                                                            | Null                                |
| - ASC Settings                                                                                     | (ASC#6)                             |
| - CHOICE mode                                                                                      | TDD                                 |
| - CHOICE TDD option                                                                                | 1.28 Mcps TDD                       |
| - Available SYNC_UL codes indices                                                                  | "1111111"                           |
| - CHOICE subchannel size                                                                           | Size1                               |
| - Available Subchannels<br>- Access Service Class                                                  | Null                                |
| - Persistence scaling factor                                                                       | 0.9 (for ASC#2)                     |
| - Persistence scaling factor                                                                       | 0.9 (for ASC#3)                     |
| - Persistence scaling factor                                                                       | 0.9 (for ASC#4)                     |
| - Persistence scaling factor                                                                       | 0.9 (for ASC#5)                     |
| - Persistence scaling factor                                                                       | 0.9 (for ASC#6)                     |
| - AC-to-ASC mapping                                                                                |                                     |
| - AC-to-ASC mapping table                                                                          |                                     |
| - AC-to-ASC mapping                                                                                | 6 (AC0-9)                           |
| - AC-to-ASC mapping                                                                                | 5 (AC10)                            |
| - AC-to-ASC mapping                                                                                | 4 (AC11)                            |
| - AC-to-ASC mapping                                                                                | 3 (AC12)                            |
| - AC-to-ASC mapping                                                                                | 2 (AC13)                            |
| - AC-to-ASC mapping                                                                                | 1 (AC14)                            |
| - AC-to-ASC mapping                                                                                | 0 (AC15)                            |
| - CHOICE mode                                                                                      | TDD (no data)                       |
| <ul> <li>Secondary CCPCH system information</li> <li>Secondary CCPCH system information</li> </ul> |                                     |
| - Secondary CCPCH system information<br>- Secondary CCPCH info                                     |                                     |
| - CHOICE mode                                                                                      | TDD                                 |
| - Offset                                                                                           | 0                                   |
| - Common timeslot info                                                                             |                                     |
| - 2 <sup>nd</sup> interleaving mode                                                                | Frame                               |
| - TFCI coding                                                                                      | Reference clause 6.10 Parameter Set |
| - Puncturing limit                                                                                 | Reference clause 6.10 Parameter Set |
| - Repetition period                                                                                | 1                                   |

- Repetition length
- Individual timeslot info
- CHOICE TDD option
- Timeslot number
- TFCI existence
- Midamble Shift and burst type
- CHOICE TDD option
- Midamble Allocation Mode
- Midamble configuration
- Midamble Shift
- CHOICE TDD option
- Modulation
- SS-TPC Symbols
- Code List
- Channelisation Code
- TFCS
  - CHOICE TFCI signalling
  - Normal
  - TFCI Field 1 information
  - CHOICE TFCS representation
  - TFCS addition information
  - CHOICE CTFC Size
  - CTFC information
  - Power offset information
- FACH/PCH information
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- CTCH indicator
- PICH info
- CHOICE mode
- CHOICE TDD option
- Timeslot number
- Midamble shift and burst type
- Midamble Allocation Mode
- Midamble configuration
- Midamble Shift
- Channelisation code list
- Channelisation code

0

1.28 Mcps TDD

Reference clause 6.10 Parameter Set

1.28 Mcps TDD

Default midamble

Not Present

1.28 Mcps TDD

Reference clause 6.10 Parameter Set

#### Addition

Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set Not Present

12 (for PCH)

(PCH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present

ALL

Reference clause 6.10 Parameter Set

13 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

**FALSE** 

TDD

1.28 Mcps TDD

Default midamble

Not Present

(16/1)

| - Channelisation code                       | (16/2)      |  |
|---------------------------------------------|-------------|--|
| - Repetition period/length                  | 64/2        |  |
| - Offset                                    | 0           |  |
| <ul> <li>Paging indicator length</li> </ul> | 4           |  |
| - N <sub>GAP</sub>                          | 4           |  |
| - N <sub>PCH</sub>                          | 2           |  |
| - CBS DRX Level 1 information               | Not Present |  |

# Contents of System Information Block type 6 in connected mode (FDD)

| - PICH power offset             | -5 dB       |
|---------------------------------|-------------|
| - CHOICE Mode                   | FDD         |
| - AICH power offset             | 5 dB        |
| - Primary CCPCH info            | Not Present |
| - PRACH system information list | Not present |
| - Secondary CCPCH system info   | Not Present |
| - CBS DRX Level 1 information   | Not Present |

# Contents of System Information Block type 6 in connected mode (similar to SIB type 5) (3.84 Mcps TDD)

| - PICH Power offset                                                    | -5 dB                                |
|------------------------------------------------------------------------|--------------------------------------|
| - CHOICE Mode                                                          | TDD                                  |
| - PUSCH system information                                             | Not Present                          |
| - PDSCH system information                                             | Not Present                          |
| - TDD open loop power control                                          |                                      |
| - Primary CCPCH Tx Power                                               | 30 dbm                               |
| - CHOICE TDD option                                                    | 3.84 Mcps TDD /REL-4/                |
| - Alpha                                                                | (1/8)                                |
| - PRACH Constant Value                                                 | l-10                                 |
| - DPCH Constant Value                                                  | -10                                  |
| - PUSCH Constant Value                                                 | -10                                  |
|                                                                        | -10                                  |
| - Primary CCPCH info                                                   | TDD                                  |
| - CHOICE mode                                                          | TDD                                  |
| - CHOICE TDD option                                                    | 3.84 Mcps TDD /REL-4/                |
| - CHOICE SyncCase                                                      | Sync Case 2                          |
| - Timeslot                                                             | 0                                    |
| - Cell parameters ID                                                   | Not Present                          |
| - SCTD indicator                                                       | FALSE                                |
| - PRACH system information list                                        |                                      |
| - PRACH system information                                             |                                      |
| - PRACH info                                                           |                                      |
| - CHOICE mode                                                          | TDD                                  |
| - CHOICE TDD option                                                    | 3.84 Mcps TDD /REL-4/                |
| - Timeslot number                                                      | 14                                   |
| - PRACH Channelisation Code List                                       |                                      |
| - CHOICE SF                                                            | SF8                                  |
| - Channelisation Code List                                             |                                      |
| - Channelisation Code                                                  | 8/1                                  |
| - Channelisation Code                                                  | 8/2                                  |
| - Channelisation Code                                                  | 8/3                                  |
| - Channelisation Code                                                  | 8/4                                  |
| - PRACH Midamble                                                       | Direct                               |
| - Transport Channel Identity                                           | 15                                   |
| - RACH TFS                                                             | 15                                   |
|                                                                        | Common transport channels            |
| - CHOICE Transport channel type - Dynamic Transport format information | Common transport channels            |
|                                                                        | Deference clause C 40 Devementor Cet |
| - RLC size                                                             | Reference clause 6.10 Parameter Set  |
| - Number of TB and TTI List                                            | Reference clause 6.10 Parameter Set  |
| - Number of Transport blocks                                           | Reference clause 6.10 Parameter Set  |
| - CHOICE Mode                                                          | TDD                                  |
| - Transmission Time Interval                                           | Not Present                          |
| - CHOICE Logical Channel List                                          | Configured                           |
| - Semi-static Transport Format information                             |                                      |
| - Transmission time interval                                           | Reference clause 6.10 Parameter Set  |
| - Type of channel coding                                               | Reference clause 6.10 Parameter Set  |

- CHOICE TDD option

```
- Coding Rate
                                                Reference clause 6.10 Parameter Set
                                                Reference clause 6.10 Parameter Set
 - Rate matching attribute
                                                Reference clause 6.10 Parameter Set
 - CRC size
- RACH TFCS
                                                Not present
- PRACH partitioning
- Access Service Class
- ASC Settings
                                                (ASC#0)
 - CHOICE mode
                                                TDD
                                                                    /REL-4/
  - CHOICE TDD option
                                                3.84 Mcps TDD
   - Available Channelisation codes indices
                                                Not Present (Default all)
   - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                (ASC#1)
 - CHOICE mode
                                                TDD
   - CHOICE TDD option
                                                3.84 Mcps TDD
                                                                    /REL-4/
   - Available Channelisation codes indices
                                                Not Present (Default all)
   - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                (ASC#2)
                                                TDD
 - CHOICE mode
  - CHOICE TDD option
                                                3.84 Mcps TDD
                                                                    /REL-4/
                                                Not Present (Default all)
  - Available Channelisation codes indices
   - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                (ASC#3)
 - CHOICE mode
                                                TDD
  - CHOICE TDD option
                                                3.84 Mcps TDD
                                                                    /REL-4/
  - Available Channelisation codes indices
                                                Not Present (Default all)
   - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
                                                (ASC#4)
 - ASC Settings
 - CHOICE mode
                                                TDD
  - CHOICE TDD option
                                                3.84 Mcps TDD
                                                                    /REL-4/
  - Available Channelisation codes indices
                                                Not Present (Default all)
   - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                (ASC#5)
 - CHOICE mode
                                                TDD
  - Available Channelisation codes indices
                                                Not Present (Default all)
  - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                (ASC#6)
 - CHOICE mode
                                                TDD
  - CHOICE TDD option
                                                3.84 Mcps TDD
                                                                    /REL-4/
  - Available Channelisation codes indices
                                                Not Present (Default all)
   - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
- Persistence scaling factors
- Access Service Class
                                                0.9 (for ASC#2)
 - Persistence scaling factor
                                                0.9 (for ASC#3)
 - Persistence scaling factor
                                                0.9 (for ASC#4)
 - Persistence scaling factor
 - Persistence scaling factor
                                                0.9 (for ASC#5)
 - Persistence scaling factor
                                                0.9 (for ASC#6)
- AC-to-ASC mapping
                                                Not Present
- CHOICE mode
                                                TDD (no data)
- Secondary CCPCH system information
- Secondary CCPCH system information
- Secondary CCPCH info
 - CHOICE mode
                                                TDD
 - Offset
                                                0
 - Common timeslot info
  - 2<sup>nd</sup> interleaving mode
                                                Not Present (MD "Frame")
  - TFCI coding
                                                Reference clause 6.10 Parameter Set
  - Puncturing limit
                                                Reference clause 6.10 Parameter Set
  - Repetition period
                                                Not Present (MD "1")
  - Repetition length
                                                Not present
 - Individual timeslot info
```

3.84 Mcps TDD

/REL-4/

- Timeslot number
- TFCI existence
- Midamble Shift and burst type
- CHOICE Burst Type
- Midamble Allocation Mode
- Midamble configuration burst type 1 and 3
- Midamble Shift
- Code List
- Channelisation Code
- TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- FACH/PCH information
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- CTCH indicator

1

Reference clause 6.10 Parameter Set

Type 1

Default midamble

4

Not Present

Reference clause 6.10 Parameter Set

(This IE is repeated for TFC number for PCH and FACH.)

Complete reconfiguration

Number of bits used must be enough to cover all

combinations of CTFC from clause 6.10.

Reference clause 6.10 Parameter Set

Not Present

(PCH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Reference clause 6.10 Parameter Set

ALL

Reference clause 6.10 Parameter Set

12 (for PCH)

FALSE (FACH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Reference clause 6.10 Parameter Set

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

13 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

TDD

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set 14 (for FACH)

FALSE

FALSE

| - PICH info                                       |               |
|---------------------------------------------------|---------------|
| - CHOICE mode                                     | TDD           |
| - CHOICE TDD option                               | 3.84 Mcps TDD |
| - Timeslot number                                 | 0             |
| <ul> <li>Midamble shift and burst type</li> </ul> |               |
| - CHOICE Burst Type                               | Type 1        |
| - Midamble Shift                                  | 0             |
| - Channelisation code                             | 16/16         |
| - Repetition period/length                        | 64/2          |
| - Offset                                          | 0             |
| - Paging indicator length                         | 4             |
| - N <sub>GAP</sub>                                | 4             |
| - N <sub>PCH</sub>                                | 2             |
| - CBS DRX Level 1 information                     | Not Present   |

Contents of System Information Block type6 In connected mode (similar to SIB type5) (1.28 Mcps TDD)

| Contents of System Information Block typeo                              | in connected mode (similar to SIB types) (1.26 Mcps |
|-------------------------------------------------------------------------|-----------------------------------------------------|
| - SIB6 indicator                                                        | TRUE                                                |
| - PICH Power offset                                                     | -5 dB                                               |
| - CHOICE Mode                                                           | TDD                                                 |
| - PUSCH system information                                              | Not Present                                         |
| - PDSCH system information                                              | Not Present                                         |
| - TDD open loop power control - Primary CCPCH Tx Power                  | 30 dbm                                              |
| - CHOICE TDD option                                                     | 1.28 Mcps TDD /REL-4/                               |
| - no data                                                               | 7.20 Mcp3 100 /KEE-4/                               |
| - Primary CCPCH info                                                    |                                                     |
| - CHOICE mode                                                           | TDD                                                 |
| - CHOICE TDD option                                                     | 1.28 Mcps TDD /REL-4/                               |
| - TSTD indicator                                                        | FALSE                                               |
| - Cell parameters ID                                                    | Not Present                                         |
| - Block SCTD indicator                                                  | FALSE                                               |
| - PRACH system information list                                         |                                                     |
| - PRACH system information                                              |                                                     |
| - PRACH info<br>- CHOICE mode                                           | TDD                                                 |
| - CHOICE TIDD option                                                    | 1.28 Mcps TDD /REL-4/                               |
| - SYNC_UL info                                                          | 1.20 Mopo 100 /TCL 4/                               |
| - SYNC_UL codes bitmap                                                  | "1111111"                                           |
| - UL Target SIR                                                         | 10 dB                                               |
| - Power Ramping Step                                                    | 3 dB                                                |
| <ul> <li>Max SYNC_UL Transmissions</li> </ul>                           | 8                                                   |
| - Mmax                                                                  | 32                                                  |
| - PRACH definition                                                      |                                                     |
| - Timeslot number - CHOICE TDD option                                   | 1.28 Mcps TDD /REL-4/                               |
| - Timeslot number                                                       | 1.20 Mcps 100 /KEL-4/                               |
| - PRACH Channelisation Code List                                        |                                                     |
| - Channelisation Code List                                              |                                                     |
| - Channelisation Code                                                   | (8/1)                                               |
| <ul> <li>Midamble Shift and burst type</li> </ul>                       |                                                     |
| - CHOICE TDD option                                                     | 1.28 Mcps TDD /REL-4/                               |
| - Midamble Allocation Mode                                              | Default midamble                                    |
| - Midamble configuration                                                | 8                                                   |
| - Midamble Shift<br>- FPACH info                                        | Not present                                         |
| - Timeslot number                                                       | 6                                                   |
| - Channelisation code                                                   | (16/16)                                             |
| - Midamble Shift and burst type                                         | (13,13)                                             |
| - CHOICE TDD option                                                     | 1.28 Mcps TDD /REL-4/                               |
| - Midamble Allocation Mode                                              | Common Midamble                                     |
| <ul> <li>Midamble configuration</li> </ul>                              | 8                                                   |
| - Midamble Shift                                                        | Not present                                         |
| - WT                                                                    | 4                                                   |
| - PNBSCH allocation     - Transport Channel Identity                    | Not Present /REL-4/<br>15                           |
| - RACH TFS                                                              | 15                                                  |
| - CHOICE Transport channel type                                         | Common transport channels                           |
| - Dynamic Transport format information                                  | Common transport originals                          |
| - RLC size                                                              | Reference clause 6.10 Parameter Set                 |
| <ul> <li>Number of TB and TTI List</li> </ul>                           | Reference clause 6.10 Parameter Set                 |
| <ul> <li>Number of Transport blocks</li> </ul>                          | Reference clause 6.10 Parameter Set                 |
| - CHOICE Mode                                                           | TDD                                                 |
| - Transmission Time Interval                                            | Not Present                                         |
| - CHOICE Logical Channel List                                           | Configured                                          |
| Semi-static Transport Format information     Transmission time interval | Reference clause 6.10 Parameter Set                 |
| - Transmission time interval - Type of channel coding                   | Reference clause 6.10 Parameter Set                 |
| - Coding Rate                                                           | Reference clause 6.10 Parameter Set                 |
| - Rate matching attribute                                               | Reference clause 6.10 Parameter Set                 |
| - CRC size                                                              | Reference clause 6.10 Parameter Set                 |
| - RACH TFCS                                                             | Not present                                         |
| - PRACH partitioning                                                    |                                                     |
|                                                                         |                                                     |

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|-----------------------------------------------------------|
| - Access Service Class                                    |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| - CHOICE TDD option                                       |
| - Available SYNC_UL codes indices                         |
| - CHOICE subchannel size                                  |
| - Available Subchannels                                   |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| - CHOICE TDD option                                       |
| - Available SYNC_UL codes indices                         |
| - CHOICE subchannel size                                  |
| - Available Subchannels                                   |
|                                                           |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| - CHOICE TDD option                                       |
| - Available SYNC_UL codes indices                         |
| - CHOICE subchannel size                                  |
| - Available Subchannels                                   |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| - CHOICE TDD option                                       |
| <ul> <li>Available SYNC_UL codes indices</li> </ul>       |
| <ul> <li>CHOICE subchannel size</li> </ul>                |
| <ul> <li>Available Subchannels</li> </ul>                 |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| <ul> <li>CHOICE TDD option</li> </ul>                     |
| <ul> <li>Available SYNC_UL codes indices</li> </ul>       |
| <ul> <li>CHOICE subchannel size</li> </ul>                |
| <ul> <li>Available Subchannels</li> </ul>                 |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| - CHOICE TDD option                                       |
| <ul> <li>Available SYNC_UL codes indices</li> </ul>       |
| - CHOICE subchannel size                                  |
| - Available Subchannels                                   |
| - ASC Settings                                            |
| - CHOICE mode                                             |
| - CHOICE TDD option                                       |
| - Available SYNC_UL codes indices                         |
| - CHOICE subchannel size                                  |
| - Available Subchannels                                   |
| - Access Service Class                                    |
| - Persistence scaling factor                              |
| - Persistence scaling factor                              |
| - Persistence scaling factor                              |
| Persistence scaling factor     Persistence scaling factor |
| Persistence scaling factor     Persistence scaling factor |
|                                                           |
| - AC-to-ASC mapping - CHOICE mode                         |
|                                                           |
| Secondary CCPCH system information                        |
| - Secondary CCPCH system information                      |
| - Secondary CCPCH info                                    |
| - CHOICE mode                                             |
| - Offset                                                  |
| - Common timeslot info                                    |
|                                                           |

- 2<sup>nd</sup> interleaving mode

- TFCI coding

- Puncturing limit

- Repetition period

- Repetition length

- Timeslot number

- TFCI existence

- Individual timeslot info - CHOICE TDD option

- Midamble Shift and burst type - CHOICE TDD option

- Midamble Allocation Mode

```
(ASC#0)
TDD
1.28 Mcps TDD
"111111111"
Size1
Null
(ASC#1)
TDD
1.28 Mcps TDD
"11111111"
Size1
Null
(ASC#2)
TDD
1.28 Mcps TDD
"111111111"
Size1
Null
(ASC#3)
TDD
1.28 Mcps TDD
"11111111"
Size1
Null
(ASC#4)
TDD
1.28 Mcps TDD
"1111111111"
Size1
Null
(ASC#5)
TDD
1.28 Mcps TDD
"111111111"
Size1
Null
(ASC#6)
TDD
1.28 Mcps TDD
"111111111"
Size1
Null
0.9 (for ASC#2)
0.9 (for ASC#3)
0.9 (for ASC#4)
0.9 (for ASC#5)
0.9 (for ASC#6)
Not Present
TDD (no data)
TDD
0
Reference clause 6.10 Parameter Set
Reference clause 6.10 Parameter Set
1
0
1.28 Mcps TDD
0
Reference clause 6.10 Parameter Set
```

1.28 Mcps TDD

Default midamble

- Midamble configuration
- Midamble Shift
- CHOICE TDD option
- Modulation
- SS-TPC Symbols
- Code List
- Channelisation Code
- TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- FACH/PCH information
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- CTCH indicator
- PICH info
- CHOICE mode
- CHOICE TDD option
- Timeslot number
- Midamble shift and burst type
- Midamble Allocation Mode
- Midamble configuration
- Midamble Shift
- Channelisation code list
- Channelisation code
- Channelisation code
- Repetition period/length
- Offset
- Paging indicator length
- N<sub>GAP</sub>
- N<sub>PCH</sub>
- CBS DRX Level 1 information

4

Not Present 1.28 Mcps TDD

Reference clause 6.10 Parameter Set

#### Complete reconfiguration

Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set

Not Present

12 (for PCH) (PCH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

TDD

Not Present ALL

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

13 (for FACH) (FACH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD

Not Present

ALL

Reference clause 6.10 Parameter Set FALSE

TDD

1.28 Mcps TDD

0

Default midamble

8

Not Present

(16/1) (16/2) 64/2 0 4 4

2

Not Present

### Contents of System Information Block type 7 (FDD)

| CHOICE Mode                                 | FDD                                  |
|---------------------------------------------|--------------------------------------|
| - UL interference                           | -100dBm                              |
| - PRACHs listed in system information block |                                      |
| type5                                       |                                      |
| - Dynamic persistence level                 | 2                                    |
| - PRACHs listed in system information block |                                      |
| type6                                       |                                      |
| - Dynamic persistence level                 | 2                                    |
| - Expiration Time Factor                    | Not Present – use default value of 1 |

#### Contents of System Information Block type 7 (TDD)

| CHOICE Mode                                     | TDD                                  |
|-------------------------------------------------|--------------------------------------|
| PRACHs listed in system information block type5 |                                      |
| - Dynamic persistence level                     | 2                                    |
| PRACHs listed in system information block type6 |                                      |
| - Dynamic persistence level                     | 2                                    |
| Expiration Time Factor                          | Not Present – use default value of 1 |

Contents of System Information Block type 8, 9 (only for FDD)

This information is used for static CPCH in the cell, so this is not present.

Contents of System Information Block type 10 (only for FDD)

This information is used for DRAC, so this is not present.

Contents of System Information Block type 11 (FDD)

This is the default message content of SIB 11 for cell 1.

See sub-clause 6.1.4 for the difference in message contents of System Information Block type 11 (FDD) for cell 2 to 8.

| - SIB12 indicator                                       | A1, A2 | TRUE                                                   |
|---------------------------------------------------------|--------|--------------------------------------------------------|
| - FACH measurement occasion info                        |        | Not Present                                            |
| - Measurement control system information                |        |                                                        |
| - Use of HCS                                            |        | Not used                                               |
| - Cell selection and reselection quality measure        |        | CPICH RSCP                                             |
| - Intra-frequency measurement system                    | A1, A2 | or for feet                                            |
| information                                             | A1, A2 |                                                        |
|                                                         |        | Not Droppet                                            |
| - Intra-frequency measurement identity                  |        | Not Present                                            |
|                                                         |        | Absence of this IE is equivalent to default value 1    |
| - Intra-frequency cell info list                        |        |                                                        |
| <ul> <li>CHOICE intra-frequency cell removal</li> </ul> |        | Not present                                            |
|                                                         |        | (This IE shall be ignored by the UE for SIB11)         |
| <ul> <li>New intra-frequency cells</li> </ul>           |        |                                                        |
| - Intra-frequency cell id                               |        | 1                                                      |
| - Cell info                                             |        |                                                        |
| - Cell individual offset                                |        | Not present                                            |
| Och marviadar onset                                     |        | Absence of this IE is equivalent to default value 0dB  |
| - Reference time difference to cell                     |        | Not Present                                            |
|                                                         |        |                                                        |
| - Read SFN indicator                                    |        | FALSE                                                  |
| - CHOICE mode                                           |        | FDD                                                    |
| - Primary CPICH info                                    |        |                                                        |
| <ul> <li>Primary scrambling code</li> </ul>             |        | Refer to clause titled "Default settings for cell No.1 |
|                                                         |        | (FDD)" in clause 6.1.4                                 |
| - Primary CPICH TX power                                |        | Not Present                                            |
| - TX Diversity indicator                                |        | FALSE                                                  |
| - Cell Selection and Re-selection info                  |        | Not Present                                            |
| Con Colocatori aria i to colocatori ario                |        | (The IE shall be absent as this is the serving cell)   |
| - Intra-frequency cell id                               |        | 2                                                      |
| - Cell info                                             |        | 2                                                      |
|                                                         |        | Network                                                |
| - Cell individual offset                                |        | Not present                                            |
|                                                         |        | Absence of this IE is equivalent to default value 0dB  |
| - Reference time difference to cell                     |        | Not present                                            |
| - Read SFN indicator                                    |        | TRUE                                                   |
| - CHOICE mode                                           |        | FDD                                                    |
| - Primary CPICH info                                    |        |                                                        |
| - Primary scrambling code                               |        | Refer to clause titled "Default settings for cell No.2 |
| , ,                                                     |        | (FDD)" in clause 6.1.4                                 |
| - Primary CPICH TX power                                |        | Not Present                                            |
| - TX Diversity indicator                                |        | FALSE                                                  |
| - Cell Selection and Re-selection info                  |        | Not present                                            |
| - Geli Gelection and Ne-Selection into                  |        | For neigbouring cell, if HCS is not used and all the   |
|                                                         |        |                                                        |
|                                                         |        | parameters in cell selection and re-selection info are |
|                                                         |        | Default value, this IE is absent.                      |
| - Intra-frequency cell id                               |        | 3                                                      |
| - Cell info                                             |        | Same content as specified for Intra-frequency cell     |
|                                                         |        | id=2 with the exception that value for Primary         |
|                                                         |        | scrambling code shall be according to clause titled    |
|                                                         |        | "Default settings for cell No.3 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id                               | A1     | 7                                                      |
| - Cell info                                             |        | Same content as specified for Intra-frequency cell     |
|                                                         |        | id=2 with the exception that value for Primary         |
|                                                         |        | scrambling code shall be according to clause titled    |
|                                                         |        | "Default settings for cell No.7 (FDD)" in clause 6.1.4 |
| Intro fraguancy call id                                 |        | ` '                                                    |
| - Intra-frequency cell id                               |        | 8                                                      |
| - Cell info                                             |        | Same content as specified for Intra-frequency cell     |
|                                                         |        | id=2 with the exception that value for Primary         |
|                                                         |        | scrambling code shall be according to clause titled    |
|                                                         |        | "Default settings for cell No.8 (FDD)" in clause 6.1.4 |
| <ul> <li>Cells for measurement</li> </ul>               | A1, A2 | Not Present                                            |
| - Intra-frequency measurement quantity                  | A1, A2 |                                                        |
| - Filter coefficient                                    | ,      | Not present                                            |
|                                                         |        | Absence of this IE is equivalent to the default value  |
|                                                         |        | 0                                                      |
| - CHOICE mode                                           |        | FDD                                                    |
|                                                         |        | CPICH RSCP                                             |
| - Measurement quantity                                  |        |                                                        |
| - Intra-frequency reporting quantity for RACH           |        | Not Present                                            |
| Reporting                                               |        | N.B.                                                   |
| - Maximum number of reported cells on RACH              |        | Not Present                                            |

- Reporting information for state CELL\_DCH
- Intra-frequency reporting quantity
- Reporting quantities for active set cells
- Cell synchronisation information reporting indicator
- Cell identity reporting indicator
- CHOICE mode
- CPICH Ec/N0 reporting indicator
- CPICH RSCP reporting indicator
- Pathloss reporting indicator
- Reporting quantities for monitored set cells
- Cell synchronisation information reporting indicator
- Cell identity reporting indicator
- CHOICE mode
- CPICH Ec/N0 reporting indicator
- CPICH RSCP reporting indicator
- Pathloss reporting indicator
- Reporting quantities for detected set cells
- Measurement reporting mode
- Measurement Report Transfer Mode
- Periodic Reporting/Event Trigger Reporting

#### Mode

- CHOICE report criteria
- Intra-frequency measurement reporting criteria
- Parameters required for each event
- Intra-frequency event identity
- Triggering condition 1
- Triggering condition 2
- Reporting Range Constant
- Cells forbidden to affect Reporting range
- W
- Hysteresis
- Threshold Used Frequency
- Reporting deactivation threshold
- Replacement activation threshold
- Time to trigger
- Amount of reporting
- Reporting interval
- Reporting cell status
- CHOICE reported cell
- Maximum number of reported cells
- Intra-frequency event identity
- Triggering condition 1
- Triggering condition 2
- Reporting Range Constant
- Cells forbidden to affect Reporting range
- W
- Hysteresis
- Threshold Used Frequency
- Reporting deactivation threshold
- Replacement activation threshold
- Time to trigger
- Amount of reporting
- Reporting interval
- Reporting cell status
- CHOICE reported cell
- Maximum number of reported cells
- Intra-frequency event identity
- Triggering condition 1
- Triggering condition 2
- Reporting Range Constant
- Cells forbidden to affect Reporting range
- W

**FALSE** 

**TRUE** 

FDD

FALSE TRUE

**FALSE** 

**TRUE** 

**TRUE** 

FDD

FALSE TRUE

FALSE

Not Present

Acknowledged mode RLC

Event trigger

Intra-frequency measurement reporting criteria

3 kinds

1a

Not Present

Monitored set cells

5dB

Not Present

1.0

0.0

Not Present

2

Not Present

640

4000

4000

Report cell within active set and/or monitored set cells on used frequency

3

1b

Active set cells

Not Present

5dB

Not Present

1.0

0.0

Not Present

Not Present

Not Present

640

Not Present

Not Present

Report cell within active set and/or monitored set cells on used frequency

3

1c

Not Present

Not Present

Not Present Not Present

Not Present

|                                                                               | ı      |                                                                                         |
|-------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|
| - Hysteresis                                                                  |        | 0.0                                                                                     |
| - Threshold Used Frequency                                                    |        | Not Present                                                                             |
| - Reporting deactivation threshold                                            |        | Not Present                                                                             |
| <ul> <li>Replacement activation threshold</li> <li>Time to trigger</li> </ul> |        | 3<br>  640                                                                              |
| - Amount of reporting                                                         |        | 4                                                                                       |
| - Reporting interval                                                          |        | 4000                                                                                    |
| - Reporting cell status                                                       |        | 1.000                                                                                   |
| - CHOICE reported cell                                                        |        | Report cell within active set and/or monitored set                                      |
| •                                                                             |        | cells on used frequency                                                                 |
| <ul> <li>Maximum number of reported cells</li> </ul>                          |        | 3                                                                                       |
| - Inter-frequency measurement system                                          | A1, A2 |                                                                                         |
| information                                                                   |        |                                                                                         |
| - Inter-frequency cell info list                                              |        | Not propert                                                                             |
| - CHOICE Inter-frequency cell removal                                         |        | Not present (This IE shall be ignored by the UE for SIB11)                              |
| - New inter-frequency cells                                                   |        | (This is shall be ignored by the OE for Sib (1)                                         |
| - Inter frequency cell id                                                     |        | 4                                                                                       |
| - Frequency info                                                              |        |                                                                                         |
| - CHOICE mode                                                                 |        | FDD                                                                                     |
| - UARFCN uplink(Nu)                                                           |        | Not present                                                                             |
|                                                                               |        | Absence of this IE is equivalent to apply the default                                   |
|                                                                               |        | duplex distance defined for the operating frequency                                     |
|                                                                               |        | according to 25.101                                                                     |
| - UARFCN downlink(Nd)                                                         |        | Reference to table 6.1.2 for Cell 4                                                     |
| - Cell info<br>- Cell individual offset                                       |        | Not propert                                                                             |
| - Cell Individual offset                                                      |        | Not present  Absence of this IE is equivalent to default value 0dB                      |
| - Reference time difference to cell                                           |        | Not present                                                                             |
| - Read SFN indicator                                                          |        | FALSE                                                                                   |
| - CHOICE mode                                                                 |        | FDD                                                                                     |
| - Primary CPICH info                                                          |        |                                                                                         |
| - Primary scrambling code                                                     |        | Refer to clause titled "Default settings for cell No.4                                  |
|                                                                               |        | (FDD)" in clause 6.1.4                                                                  |
| - Primary CPICH Tx power                                                      |        | Not present                                                                             |
| - TX Diversity Indicator                                                      |        | FALSE                                                                                   |
| - Cell Selection and Re-selection Info                                        |        | Not present (same values as for serving cell applies)                                   |
| Inter frequency cell id     Frequency info                                    |        | 5<br>Not Present                                                                        |
| - Frequency into                                                              |        | Absence of this IE is equivalent to value of the                                        |
|                                                                               |        | previous "frequency info" in the list.                                                  |
| - Cell info                                                                   |        | Same content as specified for Inter-frequency cell                                      |
|                                                                               |        | id=4 with the exception that value for Primary                                          |
|                                                                               |        | scrambling code shall be according to clause titled                                     |
|                                                                               |        | "Default settings for cell No.5 (FDD)" in clause 6.1.4                                  |
| - Inter frequency cell id                                                     |        | 6                                                                                       |
| - Frequency info                                                              |        | Not Present                                                                             |
|                                                                               |        | Absence of this IE is equivalent to value of the previous "frequency info" in the list. |
| - Cell info                                                                   |        | Same content as specified for Inter-frequency cell                                      |
|                                                                               |        | id=4 with the exception that value for Primary                                          |
|                                                                               |        | scrambling code shall be according to clause titled                                     |
|                                                                               |        | "Default settings for cell No.6 (FDD)" in clause 6.1.4                                  |
| - Cell for measurement                                                        |        | Not present                                                                             |
| - Inter-RAT measurement system information                                    | A1     | Not Present                                                                             |
| - Inter-RAT measurement system                                                | A2     |                                                                                         |
| information                                                                   |        |                                                                                         |
| - Inter-RAT cell info list                                                    |        | Not Propert                                                                             |
| - CHOICE Inter-RAT cell removal                                               |        | Not Present                                                                             |
| - New inter-RAT cells                                                         |        | (This IE shall be ignored by the UE for SIB11)                                          |
| - Inter-RAT cell id                                                           |        | 9                                                                                       |
| - CHOICE Radio Access Technology                                              |        | GSM                                                                                     |
| - GSM                                                                         |        |                                                                                         |
| - Cell individual offset                                                      |        | 0                                                                                       |
| - Cell selection and re-selection info                                        |        | Not Present                                                                             |
| - BSIC                                                                        |        |                                                                                         |
|                                                                               |        |                                                                                         |

| - Base transceiver Station Identity Code                 |        | Reference to table 6.1.10 for Cell 9  |
|----------------------------------------------------------|--------|---------------------------------------|
| (BSIC)                                                   |        |                                       |
| - Band indicator                                         |        | According to PICS/PIXIT               |
| - BCCH ARFCN                                             |        | Reference to table 6.1.10 for Cell 9  |
| - Inter-RAT cell id                                      |        | 10                                    |
| - CHOICE Radio Access Technology                         |        | GSM                                   |
| - GSM                                                    |        |                                       |
| - Cell individual offset                                 |        | 0                                     |
| <ul> <li>Cell selection and re-selection info</li> </ul> |        | Not Present                           |
| - BSIC                                                   |        |                                       |
| - Base transceiver Station Identity Code                 |        | Reference to table 6.1.10 for Cell 10 |
| (BSIC)                                                   |        |                                       |
| - Band indicator                                         |        | According to PICS/PIXITs              |
| - BCCH ARFCN                                             |        | Reference to table 6.1.10 for Cell 10 |
| - Cell for measurement                                   |        | Not present                           |
| - Traffic volume measurement system                      | A1, A2 | Not Present                           |
| information                                              |        |                                       |

| Condition | Explanation                        |  |
|-----------|------------------------------------|--|
| A1        | FDD cell environment               |  |
| A2        | FDD/GSM inter-RAT cell environment |  |

### Contents of System Information Block type 11 (3.84 Mcps and 1.28 Mcps TDD)

This is the default message content of SIB 11 for cell 1.

See sub-clause 6.1.4 for the difference in message contents of System Information Block type 11 (TDD) for cell 2 to 8.

| OID 40 le dis state                                         | 144 40           | TDUE                                                              |
|-------------------------------------------------------------|------------------|-------------------------------------------------------------------|
| - SIB 12 Indicator                                          | A1, A2           | TRUE                                                              |
| - FACH measurement occasion info                            |                  | Not Present                                                       |
| - Measurement control system information                    |                  |                                                                   |
| - Use of HCS                                                |                  | Not used                                                          |
| - Cell selection and reselection quality measureCell        |                  | (no data)                                                         |
| - Intra-frequency measurement system information            | A1, A2           |                                                                   |
| - Intra-frequency measurement identity                      |                  | Not Present                                                       |
|                                                             |                  | Absence of this IE is equivalent to default value 1               |
| - Intra-frequency cell info list                            |                  |                                                                   |
| - CHOICE intra-frequency cell removal                       |                  | Not present                                                       |
|                                                             |                  | (This IE shall be ignored by the UE for SIB11)                    |
| - New intra-frequency cells                                 |                  |                                                                   |
| - Intra-frequency cell id                                   |                  | 1                                                                 |
| - Cell info                                                 |                  |                                                                   |
| - Cell individual offset                                    |                  | Not present                                                       |
|                                                             |                  | Absence of this IE is equivalent to default value 0dB             |
| - Reference time difference to cell                         |                  | Not Present                                                       |
| - Read SFN Indicator                                        |                  | FALSE                                                             |
| - CHOICE mode                                               |                  | TDD                                                               |
| - Primary CCPCH info                                        |                  |                                                                   |
| - Cell parameters ID                                        |                  | Reference clause 6.1.4 Default settings for cell                  |
| - Primary CCPCH TX power                                    |                  | Not Present                                                       |
| - Timeslot list                                             |                  | Not Present                                                       |
| - CHOICE TDD option                                         |                  | THOU TOOSIN                                                       |
| - 3.84 Mcps TDD                                             |                  |                                                                   |
| - Timeslot number                                           |                  | Not Present                                                       |
| - Burst type                                                |                  | Not Present                                                       |
| - 1.28 Mcps TDD                                             |                  | Not i resem                                                       |
| - Timeslot number                                           |                  | Not Present                                                       |
| - Cell Selection and Re-selection info                      |                  | Not Present                                                       |
| - Oeli Gelection and Ne-Selection inio                      |                  |                                                                   |
| - Cell for measurement                                      | A1, A2           | (The IE shall be absent as this is the serving cell)  Not Present |
|                                                             | A1, A2<br>A1, A2 | INOL FIESEIIL                                                     |
| Intra-frequency measurement quantity     Filter coefficient | A1, A2           | Not procept                                                       |
| - Filler Coefficient                                        |                  | Not present                                                       |
| - CHOICE mode                                               |                  | Absence of this IE is equivalent to the default value 0 TDD       |
|                                                             |                  | טטו                                                               |
| - Measurement quantity list                                 |                  | D CODOLI DOOD                                                     |
| - Measurement quantity                                      | 1                | P-CCPCH RSCP                                                      |

- Maximum number of reported cells
- Inter-frequency measurement system information A1, A2

| - Intra-frequency reporting quantity for RACH    |  | Not Present                                             |
|--------------------------------------------------|--|---------------------------------------------------------|
| Reporting                                        |  |                                                         |
| - Maximum number of reported cells on RACH       |  | Not Present                                             |
| - Reporting information for state CELL_DCH       |  |                                                         |
| - Intra-frequency reporting quantity             |  |                                                         |
| - Reporting quantities for active set cells      |  |                                                         |
| - Cell synchronisation information reporting     |  | TRUE                                                    |
| indicator                                        |  |                                                         |
| - Cell identity reporting indicator              |  | TRUE                                                    |
| - CHOICE mode                                    |  | TDD                                                     |
| - Timeslot ISCP reporting indicator              |  | FALSE                                                   |
| - Proposed TSGN reporting required               |  | FALSE                                                   |
| - P-CCPCH RSCP reporting indicator               |  | TRUE                                                    |
| - Pathloss reporting indicator                   |  | FALSE                                                   |
| - Reporting quantities for monitored set cells   |  |                                                         |
| - Cell synchronisation information reporting     |  | FALSE                                                   |
| indicator                                        |  |                                                         |
| - Cell identity reporting indicator              |  | TRUE                                                    |
| - CHOICE mode                                    |  | TDD                                                     |
| - Timeslot ISCP reporting indicator              |  | FALSE                                                   |
| - Proposed TSGN reporting required               |  | FALSE                                                   |
| - P-CCPCH RSCP reporting indicator               |  | TRUE                                                    |
| - Pathloss reporting indicator                   |  | FALSE                                                   |
| - Reporting quantities for detected set cells    |  | Not Present                                             |
| - Measurement reporting mode                     |  |                                                         |
| - Measurement Report Transfer Mode               |  | Acknowledged mode RLC                                   |
| - Periodical Reporting / Event Trigger Reporting |  | Event trigger                                           |
| Mode                                             |  |                                                         |
| -CHOICE report criteria                          |  |                                                         |
| - Intra-frequency measurement reporting criteria |  |                                                         |
| - Parameters required for each event             |  |                                                         |
| - Intra-frequency event identity                 |  | 1g                                                      |
| - Triggering condition1                          |  | Not Present                                             |
| - Triggering condition2                          |  | Not Present                                             |
| - Reporting Range                                |  | Not Present                                             |
| - cells forbidden to affect reporting range      |  | Not Present                                             |
| - W(optional in case of 1a,1b)                   |  | Not Present                                             |
| - Hysteresis                                     |  | 0.0                                                     |
| - Threshold used frequency                       |  | Not Present                                             |
| - Reporting deactivation threshold               |  | 3                                                       |
| - Replacement activation threshold               |  | Not Present                                             |
| - Time to trigger                                |  | 640                                                     |
| - Amount of reporting                            |  | 4                                                       |
| - Reporting interval                             |  | 4000                                                    |
| - Reporting interval - Reporting cell status     |  | <del>1</del> 000                                        |
| - CHOICE reported cells                          |  | Report cell within active set and/or monitored cells on |
| Of 1010L reported delis                          |  | used frequency                                          |
| - Maximum number of reported cells               |  | 3                                                       |
| - Inter-frequency measurement system information |  |                                                         |

| - Inter-frequency cell info list                         |        |                                                            |
|----------------------------------------------------------|--------|------------------------------------------------------------|
| - CHOICE Inter-frequency cell removal                    |        | Not present                                                |
|                                                          |        | (This IE shall be ignored by the UE for SIB11)             |
| - New inter-frequency cells                              |        |                                                            |
| - Inter frequency cell id                                |        | 4                                                          |
| - Frequency info                                         |        |                                                            |
| - CHOICE mode                                            |        | TDD                                                        |
| - UARFCN (Nt)                                            |        | Reference to table 6.1.2 for Cell 4                        |
| - Cell info                                              |        |                                                            |
| - Cell individual offset                                 |        | Not present                                                |
|                                                          |        | Absence of this IE is equivalent to default value 0dB      |
| - Reference time difference to cell                      |        | Not present                                                |
| - Cell individual offset                                 |        | Not present                                                |
|                                                          |        | Absence of this IE is equivalent to default value 0dB      |
| - Reference time difference to cell                      |        | Not present                                                |
| - Read SFN indicator                                     |        | FALSE                                                      |
| - CHOICE mode                                            |        | TDD                                                        |
| - Primary CCPCH info                                     |        | Refer to clause titled "Default settings for cell No.4     |
| ·                                                        |        | (TDD)" in clause 6.1.4                                     |
| - Primary CCPCH Tx power                                 |        | Not present                                                |
| - TX Diversity Indicator                                 |        | FALSE                                                      |
| - Cell Selection and Re-selection Info                   |        | Not present (same values as for serving cell applies)      |
| - Inter frequency cell id                                |        | 5                                                          |
| - Frequency info                                         |        | Not Present                                                |
|                                                          |        | Absence of this IE is equivalent to value of the previous  |
|                                                          |        | "frequency info" in the list.                              |
| - Cell info                                              |        | Same content as specified for Inter-frequency cell id=4    |
|                                                          |        | with the exception that value for Primary scrambling       |
|                                                          |        | code shall be according to clause titled "Default settings |
|                                                          |        | for cell No.5 (TDD)" in clause 6.1.4                       |
| - Inter frequency cell id                                |        | 6                                                          |
| - Frequency info                                         |        | Not Present                                                |
|                                                          |        | Absence of this IE is equivalent to value of the previous  |
|                                                          |        | "frequency info" in the list.                              |
| - Cell info                                              |        | Same content as specified for Inter-frequency cell id=4    |
|                                                          |        | with the exception that value for Primary scrambling       |
|                                                          |        | code shall be according to clause titled "Default settings |
|                                                          |        | for cell No.6 (TDD)" in clause 6.1.4                       |
| - Cell for measurement                                   |        | Not present                                                |
| - Inter-RAT measurement system information               | A1     | Not Present                                                |
| - Inter-RAT measurement system information               | A2     |                                                            |
| - Inter-RAT cell info list                               |        |                                                            |
| - CHOICE Inter-RAT cell removal                          |        | Not Present                                                |
|                                                          |        | (This IE shall be ignored by the UE for SIB11)             |
| - New inter-RAT cells                                    |        |                                                            |
| - Inter-RAT cell id                                      |        | 9                                                          |
| - CHOICE Radio Access Technology                         |        | GSM                                                        |
| - GSM                                                    |        |                                                            |
| - Cell individual offset                                 |        | 0                                                          |
| <ul> <li>Cell selection and re-selection info</li> </ul> |        | Not Present                                                |
| - BSIC                                                   |        |                                                            |
| - Base transceiver Station Identity Code (BSIC)          |        | Reference to table 6.1.10 for Cell 9                       |
| - Band indicator                                         |        | According to PICS/PIXIT                                    |
| - BCCH ARFCN                                             |        | Reference to table 6.1.10 for Cell 9                       |
| - Inter-RAT cell id                                      |        | 10                                                         |
| - CHOICE Radio Access Technology                         |        | GSM                                                        |
| - GSM                                                    |        |                                                            |
| - Cell individual offset                                 |        | 0                                                          |
| <ul> <li>Cell selection and re-selection info</li> </ul> |        | Not Present                                                |
| - BSIC                                                   |        |                                                            |
| - Base transceiver Station Identity Code (BSIC)          |        | Reference to table 6.1.10 for Cell 10                      |
| - Band indicator                                         |        | According to PICS/PIXITs                                   |
| - BCCH ARFCN                                             |        | Reference to table 6.1.10 for Cell 10                      |
| - Cell for measurement                                   |        | Not present                                                |
| - Traffic volume measurement system information          | A1, A2 | Not Present                                                |
|                                                          |        |                                                            |

| Condition | Explanation                        |  |
|-----------|------------------------------------|--|
| A1        | TDD cell environment               |  |
| A2        | TDD/GSM inter-RAT cell environment |  |

Contents of System Information Block type 12 in connected mode (FDD)

This is the default message content of SIB 12 for cell 1.

See sub-clause 6.1.4 for the difference in message contents of System Information Block type 12 (FDD) for cell 2 to 8.

| - FACH measurement occasion info                 | Not Present |
|--------------------------------------------------|-------------|
| - Measurement control system information         |             |
| - Use of HCS                                     | Not used    |
| - Cell selection and reselection quality measure | CPICH RSCP  |
| - Intra-frequency measurement system information | Not Present |
| - Inter-frequency measurement system             | Not Present |
| information                                      |             |
| - Inter-RAT measurement system information       | Not Present |
| - Traffic volume measurement system              | Not Present |
| information                                      |             |

Contents of System Information Block type 12 in connected mode (3.84 Mcps and 1.28 Mcps TDD)

This is the default message content of SIB 12 for cell 1.

See sub-clause 6.1.4 for the difference in message contents of System Information Block type 12 (TDD) for cell 2 to 8.

| - FACH measurement occasion info                             | Not Present |
|--------------------------------------------------------------|-------------|
| <ul> <li>Measurement control system information</li> </ul>   |             |
| - Use of HCS                                                 | Not used    |
| - Cell selection and reselection quality measure             | (no data)   |
| - Intra-frequency measurement system                         | Not Present |
| information                                                  |             |
| <ul> <li>Inter-RAT measurement system information</li> </ul> | Not Present |
| - Traffic volume measurement system                          | Not Present |
| information                                                  |             |

Contents of System Information Block type 13 (used when supported PLMN type is ANSI-41)

| - CN Domain system information list         |                             |
|---------------------------------------------|-----------------------------|
| - CN Domain system information              | For Packet-Switched domain  |
| - CN domain identity                        | PS                          |
| - CHOICE CN Type                            | ANSI-41                     |
| - CN domain specific NAS system information |                             |
| - NAS (ANSI-41) system information          | T.B.D                       |
| - CN domain specific DRX cycle length       | 7                           |
| coefficient                                 |                             |
| - CN Domain system information              | For Circuit-Switched domain |
| - CN domain identity                        | CS                          |
| - CHOICE CN Type                            | ANSI-41                     |
| - CN domain specific NAS system information |                             |
| - NAS (ANSI-41) system information          | T.B.D                       |
| - CN domain specific DRX cycle length       | 7                           |
| coefficient                                 |                             |
| - UE timers and constants in idle mode      |                             |
| - T300                                      | 400 milliseconds            |
| - N300                                      | 3                           |
| - T312                                      | 10 seconds                  |
| - N312                                      | 200                         |
| - Capability update requirement             |                             |
| - UE radio access FDD capability update     | TRUE                        |
|                                             | 11102                       |
| requirement                                 |                             |

| <ul> <li>UE radio access TDD capability update</li> </ul> | FALSE       |
|-----------------------------------------------------------|-------------|
| requirement                                               |             |
| - System specific capability update requirement           | Not Present |
| list                                                      |             |

### Contents of System Information Block type 14 (3.84 Mcps TDD)

| - Individual Timeslot interference list |                      |
|-----------------------------------------|----------------------|
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 2                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 3                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 4                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 5                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 6                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 7                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 9                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 10                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 11                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 12                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 13                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 14                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Expiration Time Factor                | Not Present (MD "1") |

## Contents of System Information Block type 16

| - Predefined RB configuration   | [FFS] |
|---------------------------------|-------|
| - Predefined TrCh configuration | [FFS] |
| - Predefined Phy configuration  | [FFS] |

## Contents of System Information Block type17 (3.84 Mcsps TDD and 1.28 Mcps TDD)

This system information block contains fast changing parameters for the configuration of the shared physical channels to be used in connected mode, so this is not present.

Contents of System Information Block type 18

| - Idle mode PLMN identities           |             |
|---------------------------------------|-------------|
| - PLMNs of intra-frequency cells list | Not present |
| - PLMNs of inter-frequency cells list | Not present |
| - PLMNs of inter-RAT cells list       | Not present |
| - Connected mode PLMN identities      | Not present |

# 6.1.1 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the second SCCPCH

Two SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH and the second SCCPCH carries the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/DCCH/BCCH.

This Reference System Configuration is the same as defined in chapter 6.1, except for the following SIBs.

# Contents of System Information Block type 5 (FDD)

| - SIB6 indicator                                              | TRUE                                                        |
|---------------------------------------------------------------|-------------------------------------------------------------|
| - PICH Power offset                                           | -5 dB                                                       |
| - CHOICE Mode                                                 | FDD                                                         |
| - AICH Power offset                                           | 5 dB                                                        |
| - Primary CCPCH info                                          | Not Present                                                 |
|                                                               | Not i lesent                                                |
| - PRACH system information list                               |                                                             |
| - PRACH system information                                    |                                                             |
| - PRACH info                                                  |                                                             |
| - CHOICE mode                                                 | FDD                                                         |
| - Available Signature                                         | '0000 0000 1111 1111'B                                      |
| - Available SF                                                | 64                                                          |
| - Preamble scrambling code number                             | 0                                                           |
| - Puncturing Limit                                            | 1.00                                                        |
| - Available Sub Channel number                                | '1111 1111 1111'B                                           |
|                                                               | 15                                                          |
| - Transport Channel Identity                                  | 15                                                          |
| - RACH TFS                                                    |                                                             |
| - CHOICE Transport channel type                               | Common transport channels                                   |
| - Dynamic Transport format information                        |                                                             |
| - RLC size                                                    | 168                                                         |
| - Number of TB and TTI List                                   |                                                             |
| - Number of Transport blocks                                  | 1                                                           |
| - CHOICE Mode                                                 | FDD                                                         |
| - CHOICE Logical Channel List                                 | Configured                                                  |
| - RLC size                                                    | 360                                                         |
|                                                               | 300                                                         |
| - Number of TB and TTI List                                   | ,                                                           |
| - Number of Transport blocks                                  | 1                                                           |
| - CHOICE Mode                                                 | FDD                                                         |
| - CHOICE Logical Channel List                                 | Configured                                                  |
| - Semi-static Transport Format information                    |                                                             |
| - Transmission time interval                                  | 20 ms                                                       |
| - Type of channel coding                                      | Convolutional                                               |
| - Coding Rate                                                 | 1/2                                                         |
| - Rate matching attribute                                     | 150                                                         |
|                                                               | 16                                                          |
| - CRC size                                                    | 10                                                          |
| - RACH TFCS                                                   |                                                             |
| - CHOICE TFCI signalling                                      | Normal                                                      |
| - TFCI Field 1 information                                    |                                                             |
| - CHOICE TFCS representation                                  | Complete reconfiguration                                    |
| <ul> <li>TFCS complete reconfiguration information</li> </ul> |                                                             |
| - CHOICE CTFC Size                                            | 2 bit                                                       |
| - CTFC information                                            | 0                                                           |
| - Power offset information                                    |                                                             |
| - CHOICE Gain Factors                                         | Computed Gain Factor                                        |
| - Reference TFC ID                                            | 0                                                           |
|                                                               | -                                                           |
| - CHOICE Mode                                                 | FDD                                                         |
| - Power offset Pp-m                                           | 0 dB                                                        |
| - CTFC information                                            | 1                                                           |
| <ul> <li>Power offset information</li> </ul>                  |                                                             |
| - CHOICE Gain Factors                                         | Signalled Gain Factor                                       |
| - CHOICE mode                                                 | FĎD                                                         |
| - Gain factor ßc                                              | 11                                                          |
| - Gain factor ßd                                              | 15                                                          |
| - Reference TFC ID                                            | 0                                                           |
| - CHOICE Mode                                                 | FDD                                                         |
|                                                               |                                                             |
| - Power offset Pp-m                                           | 0 dB                                                        |
| - PRACH partitioning                                          |                                                             |
| - Access Service Class                                        |                                                             |
| - ASC Setting                                                 | Not Present                                                 |
| - ASC Setting                                                 |                                                             |
| - CHOICE mode                                                 | FDD                                                         |
| - Available signature Start Index                             | 0 (ASC#1)                                                   |
| - Available signature End Index                               | 7 (ASC#1)                                                   |
| - Assigned Sub-Channel Number                                 | '1111'B                                                     |
| 7.001g1100 Oub Official Pulliber                              | The first/ leftmost bit of the bit string contains the most |
|                                                               |                                                             |
| ACC Catting                                                   | significant bit of the Assigned Sub-Channel Number.         |
| - ASC Setting                                                 | Not Present                                                 |

- ASC Setting - CHOICE mode

| <ul> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul> <li>ASC Setting</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul> <li>ASC Setting</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position |
| - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

- CHOICE CTFC Size

```
FDD
0 (ASC#3)
7 (ASC#3)
'1111'B
The first/ leftmost bit of the bit string contains the most
significant bit of the Assigned Sub-Channel Number.
Not Present
FDD
0 (ASC#5)
7 (ASC#5)
'1111'B
The first/ leftmost bit of the bit string contains the most
significant bit of the Assigned Sub-Channel Number.
Not Present
FDD
0 (ASC#7)
7 (ASC#7)
'1111'B
The first/ leftmost bit of the bit string contains the most
significant bit of the Assigned Sub-Channel Number.
0.9 (for ASC#2)
0.9 (for ASC#3)
0.9 (for ASC#4)
0.9 (for ASC#5)
0.9 (for ASC#6)
0.9 (for ASC#7)
6 (AC0-9)
5 (AC10)
4 (AC11)
3 (AC12)
2 (AC13)
1 (AC14)
0 (AC15)
FDD
31
-10
3dB
4
3 slot
10 slot
3
FALSE
(For 2 SCCPCHs)
(SCCPCH for standalone PCH)
FDD
Not Present
FALSE
128
FALSE
FALSE
Fixed
30
Normal
Complete reconfiguration
```

2 bit

| - CTFC information                                                     |
|------------------------------------------------------------------------|
| - Power offset information                                             |
| - CTFC information                                                     |
| - Power offset information                                             |
| - FACH/PCH information<br>- TFS                                        |
| - CHOICE Transport channel type                                        |
| - Dynamic Transport format information                                 |
| - RLC Size                                                             |
| - Number of TB and TTI List                                            |
| - Number of Transport blocks                                           |
| <ul> <li>Number of Transport blocks</li> <li>CHOICE Mode</li> </ul>    |
| - CHOICE Logical Channel List                                          |
| - Semi-static Transport Format information                             |
| - Transmission time interval                                           |
| - Type of channel coding                                               |
| <ul><li>Coding Rate</li><li>Rate matching attribute</li></ul>          |
| - CRC size                                                             |
| - Transport Channel Identity                                           |
| - CTCH indicator                                                       |
| - PICH info<br>- CHOICE mode                                           |
| - Channelisation code                                                  |
| - Number of PI per frame                                               |
| - STTD indicator                                                       |
| - Secondary CCPCH info                                                 |
| - CHOICE mode - Secondary scrambling code                              |
| - STTD indicator                                                       |
| - Spreading factor                                                     |
| - Code number                                                          |
| Pilot symbol existence     TFCI existence                              |
| - TFOI existence                                                       |
| - Fixed or Flexible position                                           |
| Timing offcot                                                          |
| - Timing offset                                                        |
| - TFCS                                                                 |
| - CHOICE TFCI signalling                                               |
| - TFCI Field 1 information - CHOICE TFCS representation                |
| - TFCS complete reconfiguration information                            |
| - CHOICE CTFC Size                                                     |
| - CTFC information                                                     |
| - Power offset information                                             |
| CTFC information     Power offset information                          |
| - CTFC information                                                     |
| - Power offset information                                             |
| - CTFC information                                                     |
| - Power offset information                                             |
| <ul> <li>CTFC information</li> <li>Power offset information</li> </ul> |
| - FACH/PCH information                                                 |
| - TFS                                                                  |
| - CHOICE Transport channel type                                        |
| Dynamic Transport format information     RLC Size                      |
| - RLC Size<br>- Number of TB and TTI List                              |
| - Number of Transport blocks                                           |
| - Number of Transport blocks                                           |
| - Number of Transport blocks                                           |
| - CHOICE Mode                                                          |

- CHOICE Logical Channel List

- Transmission time interval

- Semi-static Transport Format information

```
Not Present
Not Present
(PCH)
Common transport channels
240
0
FDD
ALL
10 ms
Convolutional
1/2
230
16 bit
12 (for PCH)
FALSE
FDD
2
18
FALSE
(SCCPCH including two FACHs)
FDD
Not Present
FALSE
64
FALSE
Not Present
Absence of this IE is equivalent to default value "TRUE"
Not Present
Absence of this IE is equivalent to default value "Flexible"
Not Present
Absence of this IE is equivalent to default value 0
Normal
Complete reconfiguration
4 bit
Not Present
Not Present
Not Present
Not Present
Not Present
(FACH)
Common transport channels
168
0
2
FDD
ALL
```

10 ms

| - Type of channel coding                   | Convolutional             |
|--------------------------------------------|---------------------------|
| - Coding Rate                              | 1/2                       |
| - Rate matching attribute                  | 220                       |
| - CRC size                                 | 16 bit                    |
| - Transport Channel Identity               | 13 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - TFS                                      | (FACH)                    |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     | ·                         |
| - RLC Size                                 | 360                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - CHOICE Mode                              | FDD                       |
| - CHOICE Logical Channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Turbo                     |
| - Rate matching attribute                  | 130                       |
| - CRC size                                 | 16bit                     |
| - Transport Channel Identity               | 14 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - CBS DRX Level 1 information              | Not Present               |

Contents of System Information Block type 5 (3.84 Mcps TDD)

<FFS>

Contents of System Information Block type 5 (1.28 Mcps TDD)

<FFS>

Contents of System Information Block type 6 in connected mode (FDD)

| - PICH Power offset                  | -5 dB       |
|--------------------------------------|-------------|
| - CHOICE Mode                        | FDD         |
| - AICH Power offset                  | 5 dB        |
| - Primary CCPCH info                 | Not Present |
| - PRACH system information list      | Not Present |
| - Secondary CCPCH system information | Not Present |
| - CBS DRX Level 1 information        | Not Present |

Contents of System Information Block type 6 in connected mode (3.84 Mcps TDD)

<FFS>

Contents of System Information Block type 6 in connected mode (1.28 Mcps TDD)

<FFS>

6.1.2 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH, RB for CTCH + SRBs for CCCH/BCCH in the second SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the third SCCPCH (FDD only)

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH. The second SCCPCH carries the FACH for CTCH (Cell Broadcast Service) and the FACH for SRBs on CCCH/ BCCH for idle mode UEs. The third SCCPCH carries the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/ DCCH/ BCCH for connected mode UEs.

This Reference System Configuration is the same as defined in chapter 6.1, except for the following SIBs.

Contents of System Information Block type 5 (FDD)

| - SIB6 indicator                                    | TRUE                                                        |
|-----------------------------------------------------|-------------------------------------------------------------|
| - PICH Power offset                                 | -5 dB                                                       |
| - CHOICE Mode                                       | FDD                                                         |
| - AICH Power offset                                 | 5 dB                                                        |
| - Primary CCPCH info                                | Not Present                                                 |
| - PRACH system information list                     | 1011100011                                                  |
| - PRACH system information                          |                                                             |
|                                                     |                                                             |
| - PRACH info                                        |                                                             |
| - CHOICE mode                                       | FDD                                                         |
| - Available Signature                               | '0000 0000 1111 1111'B                                      |
| - Available SF                                      | 64                                                          |
| <ul> <li>Preamble scrambling code number</li> </ul> | 0                                                           |
| - Puncturing Limit                                  | 1.00                                                        |
| - Available Sub Channel number                      | '1111 1111 1111'B                                           |
| - Transport Channel Identity                        | 15                                                          |
| - RACH TFS                                          | 10                                                          |
| - CHOICE Transport channel type                     | Common transport abannala                                   |
|                                                     | Common transport channels                                   |
| - Dynamic Transport format information              | 400                                                         |
| - RLC size                                          | 168                                                         |
| - Number of TB and TTI List                         |                                                             |
| <ul> <li>Number of Transport blocks</li> </ul>      | 1                                                           |
| - CHOICE Mode                                       | FDD                                                         |
| - CHOICE Logical Channel List                       | Configured                                                  |
| - RLC size                                          | 360                                                         |
| - Number of TB and TTI List                         |                                                             |
| - Number of Transport blocks                        | 1                                                           |
| - CHOICE Mode                                       | FDD                                                         |
|                                                     |                                                             |
| - CHOICE Logical Channel List                       | Configured                                                  |
| - Semi-static Transport Format information          |                                                             |
| - Transmission time interval                        | 20 ms                                                       |
| - Type of channel coding                            | Convolutional                                               |
| - Coding Rate                                       | 1/2                                                         |
| - Rate matching attribute                           | 150                                                         |
| - CRC size                                          | 16                                                          |
| - RACH TFCS                                         |                                                             |
| - CHOICE TFCI signalling                            | Normal                                                      |
| - TFCI Field 1 information                          |                                                             |
| - CHOICE TFCS representation                        | Complete reconfiguration                                    |
| - TFCS complete reconfiguration information         | Complete recomingulation                                    |
| - CHOICE CTFC Size                                  | 2 bit                                                       |
| - CTFC information                                  | 0                                                           |
|                                                     | 0                                                           |
| - Power offset information                          |                                                             |
| - CHOICE Gain Factors                               | Computed Gain Factor                                        |
| - Reference TFC ID                                  | 0                                                           |
| - CHOICE mode                                       | FDD                                                         |
| - Power offset Pp-m                                 | 0 dB                                                        |
| - CTFC information                                  | 1                                                           |
| - Power offset information                          |                                                             |
| - CHOICE Gain Factors                               | Signalled Gain Factor                                       |
| - CHOICE mode                                       | FDD                                                         |
| - Gain factor &c                                    | 11                                                          |
| - Gain factor ßd                                    | 15                                                          |
|                                                     | 0                                                           |
| - Reference TFC ID                                  |                                                             |
| - CHOICE Mode                                       | FDD                                                         |
| - Power offset Pp-m                                 | 0 dB                                                        |
| - PRACH partitioning                                |                                                             |
| - Access Service Class                              |                                                             |
| - ASC Setting                                       | Not Present                                                 |
| - ASC Setting                                       |                                                             |
| - CHOICE mode                                       | FDD                                                         |
| - Available signature Start Index                   | 0 (ASC#1)                                                   |
| - Available signature End Index                     | 7 (ASC#1)                                                   |
| - Assigned Sub-Channel Number                       | 1111'B                                                      |
| 7.00igiled out challing Number                      | The first/ leftmost bit of the bit string contains the most |
|                                                     | significant bit of the Assigned Sub-Channel Number.         |
| - ASC Setting                                       | Not Present                                                 |
| - AGO Getting                                       | 140(1 1696))(                                               |

- ASC Setting

| <ul> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul> <li>ASC Setting</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Persistence scaling factor AC-to-ASC mapping table AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping CHOICE mapping AC-to-ASC mapping CHOICE mode Primary CPICH TX power Constant value PRACH power offset Power Ramp Step Preamble Retrans Max RACH transmission parameters Mmax NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset |
| - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

- TFCS complete reconfiguration information

- CHOICE CTFC Size

```
FDD
0 (ASC#3)
7 (ASC#3)
'1111'B
The first/ leftmost bit of the bit string contains the most
significant bit of the Assigned Sub-Channel Number.
Not Present
FDD
0 (ASC#5)
7 (ASC#5)
'1111'B
The first/ leftmost bit of the bit string contains the most
significant bit of the Assigned Sub-Channel Number.
Not Present
FDD
0 (ASC#7)
7 (ASC#7)
'1111'B
The first/ leftmost bit of the bit string contains the most
significant bit of the Assigned Sub-Channel Number.
0.9 (for ASC#2)
0.9 (for ASC#3)
0.9 (for ASC#4)
0.9 (for ASC#5)
0.9 (for ASC#6)
0.9 (for ASC#7)
6 (AC0-9)
5 (AC10)
4 (AC11)
3 (AC12)
2 (AC13)
1 (AC14)
0 (AC15)
FDD
31
-10
3dB
4
3 slot
10 slot
3
FALSE
(For 2 SCCPCHs)
(SCCPCH for standalone PCH)
FDD
Not Present
FALSE
128
FALSE
FALSE
Fixed
30
Normal
Complete reconfiguration
```

2 bit

- CTFC information
- Power offset information

- CTFC information
- Power offset information

| - CTFC information                             | 0                                                            |
|------------------------------------------------|--------------------------------------------------------------|
| - Power offset information                     | Not Present                                                  |
| - CTFC information                             | 1                                                            |
| - Power offset information                     | Not Present                                                  |
| - FACH/PCH information                         | Not i lesent                                                 |
|                                                | (DOLI)                                                       |
| - TFS                                          | (PCH)                                                        |
| - CHOICE Transport channel type                | Common transport channels                                    |
| - Dynamic Transport format information         | 0.40                                                         |
| - RLC Size                                     | 240                                                          |
| - Number of TB and TTI List                    |                                                              |
| - Number of Transport blocks                   | 0                                                            |
| <ul> <li>Number of Transport blocks</li> </ul> | 1                                                            |
| - CHOICE Mode                                  | FDD                                                          |
| - CHOICE Logical Channel List                  | ALL                                                          |
| - Semi-static Transport Format information     |                                                              |
| - Transmission time interval                   | 10 ms                                                        |
| - Type of channel coding                       | Convolutional                                                |
| - Coding Rate                                  | 1/2                                                          |
| - Rate matching attribute                      | 230                                                          |
| - CRC size                                     | 16 bit                                                       |
| - Transport Channel Identity                   | 12 (for PCH)                                                 |
| - CTCH indicator                               | FALSE                                                        |
| - PICH info                                    | T ALGE                                                       |
| - CHOICE mode                                  | FDD                                                          |
| - Channelisation code                          | 2                                                            |
|                                                | 18                                                           |
| - Number of PI per frame                       | 1.5                                                          |
| - STTD indicator                               | FALSE                                                        |
| - Secondary CCPCH info                         | (SCCPCH including two FACHs)                                 |
| - CHOICE mode                                  | FDD                                                          |
| - Secondary scrambling code                    | Not Present                                                  |
| - STTD indicator                               | FALSE                                                        |
| - Spreading factor                             | 128                                                          |
| - Code number                                  | 5                                                            |
| - Pilot symbol existence                       | FALSE                                                        |
| - TFCI existence                               | Not Present                                                  |
|                                                | Absence of this IE is equivalent to default value "TRUE"     |
| - Fixed or Flexible position                   | Not Present                                                  |
|                                                | Absence of this IE is equivalent to default value "Flexible" |
| - Timing offset                                | Not Present                                                  |
|                                                | Absence of this IE is equivalent to default value 0          |
| - TFCS                                         | '                                                            |
| - CHOICE TFCI signalling                       | Normal                                                       |
| - TFCI Field 1 information                     | 110111101                                                    |
| - CHOICE TFCS representation                   | Complete reconfiguration                                     |
| - TFCS complete reconfiguration information    | Complete recornigulation                                     |
| - CHOICE CTFC Size                             | 2 bit                                                        |
| - CTFC information                             | 0                                                            |
| - Power offset information                     | Not Present                                                  |
| - Fower onset information                      | 1                                                            |

Not Present

Not Present

2

| - FACH/PCH information                                                     | <u> </u>                         |
|----------------------------------------------------------------------------|----------------------------------|
| - FACH/PCH INIOIMATION                                                     | (EACH)                           |
|                                                                            | (FACH) Common transport channels |
| - CHOICE Transport channel type     - Dynamic Transport format information | Common transport charmers        |
| - Byriamic Transport format information - RLC Size                         | 168                              |
| - Number of TB and TTI List                                                | 100                              |
|                                                                            |                                  |
| - Number of Transport blocks                                               | 0                                |
| - Number of Transport blocks                                               | 1<br>FDD                         |
| - CHOICE Mode                                                              | ' = =                            |
| - CHOICE Logical Channel List                                              | ALL                              |
| - Semi-static Transport Format information                                 | 40                               |
| - Transmission time interval                                               | 10 ms                            |
| - Type of channel coding                                                   | Convolutional                    |
| - Coding Rate                                                              | 1/3                              |
| - Rate matching attribute                                                  | 220                              |
| - CRC size                                                                 | 16 bit                           |
| - Transport Channel Identity                                               | 13 (for FACH)                    |
| - CTCH indicator                                                           | FALSE                            |
| - TFS                                                                      | (FACH)                           |
| - CHOICE Transport channel type                                            | Common transport channels        |
| - Dynamic Transport format information                                     |                                  |
| - RLC Size                                                                 | 168                              |
| <ul> <li>Number of TB and TTI List</li> </ul>                              |                                  |
| <ul> <li>Number of Transport blocks</li> </ul>                             | 0                                |
| <ul> <li>Number of Transport blocks</li> </ul>                             | 1                                |
| - CHOICE Mode                                                              | FDD                              |
| - CHOICE Logical Channel List                                              | ALL                              |
| <ul> <li>Semi-static Transport Format information</li> </ul>               |                                  |
| - Transmission time interval                                               | 10 ms                            |
| - Type of channel coding                                                   | Convolutional                    |
| - Coding Rate                                                              | 1/3                              |
| - Rate matching attribute                                                  | 220                              |
| - CRC size                                                                 | 16bit                            |
| - Transport Channel Identity                                               | 14 (for FACH)                    |
| - CTCH indicator                                                           | TRUE                             |
| - CBS DRX Level 1 information                                              |                                  |
| - Period of CTCH allocation (N)                                            | 2                                |
| - CBS frame offset (K)                                                     | 0                                |

Contents of System Information Block type 6 in connected mode (FDD)

| - PICH Power offset                            | -5 dB                                                        |
|------------------------------------------------|--------------------------------------------------------------|
| - CHOICE Mode                                  | FDD                                                          |
| - AICH Power offset                            | 5 dB                                                         |
| - Primary CCPCH info                           | Not present                                                  |
| - PRACH system information list                | Not Present                                                  |
| - Secondary CCPCH system information           |                                                              |
| - Secondary CCPCH info                         | (SCCPCH including two FACHs)                                 |
| - CHOICE mode                                  | FDD                                                          |
| - Secondary scrambling code                    | Not Present                                                  |
| - STTD indicator                               | FALSE                                                        |
| - Spreading factor                             | 64                                                           |
| - Code number                                  | 1                                                            |
| - Pilot symbol existence                       | FALSE                                                        |
| - TFCI existence                               | Not Present                                                  |
|                                                | Absence of this IE is equivalent to default value "TRUE"     |
| - Fixed or Flexible position                   | Not Present                                                  |
|                                                | Absence of this IE is equivalent to default value "Flexible" |
| - Timing offset                                | 90                                                           |
| - TFCS                                         |                                                              |
| - CHOICE TFCI signalling                       | Normal                                                       |
| - TFCI Field 1 information                     |                                                              |
| - CHOICE TFCS representation                   | Complete reconfiguration                                     |
| - TFCS complete reconfiguration information    |                                                              |
| - CHOICE CTFC Size                             | 4 bit                                                        |
| - CTFC information                             | 0                                                            |
| - Power offset information                     | Not Present                                                  |
| - CTFC information                             | 1                                                            |
| - Power offset information                     | Not Present                                                  |
| - CTFC information                             | 2                                                            |
| - Power offset information                     | Not Present                                                  |
| - CTFC information                             | 3                                                            |
| - Power offset information                     | Not Present                                                  |
| - CTFC information                             | 4                                                            |
| - Power offset information                     | Not Present                                                  |
| - FACH/PCH information                         |                                                              |
| - TFS                                          | (FACH)                                                       |
| - CHOICE Transport channel type                | Common transport channels                                    |
| - Dynamic Transport format information         | ·                                                            |
| - RLC Size                                     | 168                                                          |
| - Number of TB and TTI List                    |                                                              |
| - Number of Transport blocks                   | 0                                                            |
| - Number of Transport blocks                   | 1                                                            |
| - Number of Transport blocks                   | 2                                                            |
| - CHOICE Mode                                  | FDD                                                          |
| - CHOICE Logical Channel List                  | ALL                                                          |
| - Semi-static Transport Format information     |                                                              |
| - Transmission time interval                   | 10 ms                                                        |
| - Type of channel coding                       | Convolutional                                                |
| - Coding Rate                                  | 1/2                                                          |
| - Rate matching attribute                      | 220                                                          |
| - CRC size                                     | 16 bit                                                       |
| - Transport Channel Identity                   | 16 (for FACH)                                                |
| - CTCH indicator                               | FALSE                                                        |
| - TFS                                          | (FACH)                                                       |
| - CHOICE Transport channel type                | Common transport channels                                    |
| - Dynamic Transport format information         |                                                              |
| - RLC Size                                     | 360                                                          |
| - Number of TB and TTI List                    |                                                              |
| - Number of Transport blocks                   | 0                                                            |
| <ul> <li>Number of Transport blocks</li> </ul> | 1                                                            |
| - CHOICE Mode                                  | FDD                                                          |
| - CHOICE Logical Channel List                  | ALL                                                          |
| - Semi-static Transport Format information     |                                                              |
| - Transmission time interval                   | 10 ms                                                        |
| - Type of channel coding                       | Turbo                                                        |
| - Rate matching attribute                      | 130                                                          |
|                                                |                                                              |

| - CRC size                    | 16bit         |
|-------------------------------|---------------|
| - Transport Channel Identity  | 17 (for FACH) |
| - CTCH indicator              | FALSE         |
| - CBS DRX Level 1 information | Not Present   |

# 6.1.3 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the second and third SCCPCHs

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH and both the second and third SCCPCHs carry the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/ DCCH/ BCCH.

This Reference System Configuration is the same as defined in chapter 6.1, except for the following SIBs. (SIB6 is not used in this configuration.)

Contents of Scheduling Block 1 (FDD)

| - References to other system information blocks |                                         |
|-------------------------------------------------|-----------------------------------------|
| - Scheduling information                        |                                         |
| - CHOICE Value tag                              | Not Present                             |
| - SEG_COUNT                                     | 1                                       |
| - SIB_REP                                       | 16                                      |
| - SIB_POS                                       | 4                                       |
| - SIB_POS offset info                           | Not Present                             |
| - SIB type SIBs only                            | System Information Type 7               |
| - Scheduling information                        | ,                                       |
| - CHOICE Value tag                              | Cell Value tag                          |
| - Cell Value tag                                | 1                                       |
| - SEG_COUNT                                     | 3                                       |
| - SIB REP                                       | 64                                      |
| - SIB POS                                       | 58                                      |
| - SIB POS offset info                           |                                         |
| - SIB_OFF                                       | 2                                       |
| - SIB_OFF                                       | 2                                       |
| - SIB type SIBs only                            | System Information Type 11              |
| - Scheduling information                        | , , , , , , , , , , , , , , , , , , , , |
| - CHOICE Value tag                              | Cell Value tag                          |
| - Cell Value tag                                | 1                                       |
| - SEG_COUNT                                     | 3                                       |
| - SIB REP                                       | 64                                      |
| - SIB POS                                       | 26                                      |
| - SIB POS offset info                           |                                         |
| - SIB_OFF                                       | 2                                       |
| - SIB OFF                                       | 2                                       |
| - SIB type SIBs only                            | System Information Type 12              |
| - Scheduling information                        | 7, 1                                    |
| - CHOICE Value tag                              | PLMN Value tag                          |
| - PLMN Value tag                                | 1                                       |
| - SEG_COUNT                                     | 1                                       |
| - SIB_REP                                       | 64                                      |
| - SIB_POS                                       | 36                                      |
| - SIB_POS offset info                           | Not Present                             |
| - SIB type SIBs only                            | System Information Type 18              |

# Contents of System Information Block type 5 (FDD)

| - SIB6 indicator                              | FALSE                                                       |
|-----------------------------------------------|-------------------------------------------------------------|
| - PICH Power offset                           | -5 dB                                                       |
| - CHOICE Mode                                 | FDD                                                         |
| - AICH Power offset                           | 5 dB                                                        |
| - Primary CCPCH info                          | Not Present                                                 |
|                                               | Not i lesem                                                 |
| - PRACH system information list               |                                                             |
| - PRACH system information                    |                                                             |
| - PRACH info                                  |                                                             |
| - CHOICE mode                                 | FDD                                                         |
| - Available Signature                         | '0000 0000 1111 1111'B                                      |
| - Available SF                                | 64                                                          |
| - Preamble scrambling code number             | 0                                                           |
| - Puncturing Limit                            | 1.00                                                        |
| - Available Sub Channel number                | '1111 1111 1111'B                                           |
|                                               | 15                                                          |
| - Transport Channel Identity                  | 10                                                          |
| - RACH TFS                                    |                                                             |
| - CHOICE Transport channel type               | Common transport channels                                   |
| - Dynamic Transport format information        |                                                             |
| - RLC size                                    | 168                                                         |
| <ul> <li>Number of TB and TTI List</li> </ul> |                                                             |
| - Number of Transport blocks                  | 1                                                           |
| - CHOICE Mode                                 | FDD                                                         |
| - CHOICE Logical Channel List                 | Configured                                                  |
| - RLC size                                    | 360                                                         |
| - Number of TB and TTI List                   | 000                                                         |
|                                               | 4                                                           |
| - Number of Transport blocks                  | 1                                                           |
| - CHOICE Mode                                 | FDD                                                         |
| - CHOICE Logical Channel List                 | Configured                                                  |
| - Semi-static Transport Format information    |                                                             |
| - Transmission time interval                  | 20 ms                                                       |
| - Type of channel coding                      | Convolutional                                               |
| - Coding Rate                                 | 1/2                                                         |
| - Rate matching attribute                     | 150                                                         |
| - CRC size                                    | 16                                                          |
| - RACH TFCS                                   | .•                                                          |
| - CHOICE TFCI signalling                      | Normal                                                      |
| - TFCI Field 1 information                    | Noma                                                        |
|                                               | Complete reconfiguration                                    |
| - CHOICE TFCS representation                  | Complete reconfiguration                                    |
| - TFCS complete reconfiguration information   |                                                             |
| - CHOICE CTFC Size                            | 2 bit                                                       |
| - CTFC information                            | 0                                                           |
| <ul> <li>Power offset information</li> </ul>  |                                                             |
| - CHOICE Gain Factors                         | Computed Gain Factor                                        |
| - Reference TFC ID                            | 0                                                           |
| - CHOICE mode                                 | FDD                                                         |
| - Power offset Pp-m                           | 0 dB                                                        |
| - CTFC information                            | 1                                                           |
| - Power offset information                    |                                                             |
| - CHOICE Gain Factors                         | Signalled Gain Factor                                       |
|                                               | Signalled Gain Factor                                       |
| - CHOICE mode                                 | FDD                                                         |
| - Gain factor ßc                              | 11                                                          |
| - Gain factor ßd                              | 15                                                          |
| - Reference TFC ID                            | 0                                                           |
| - CHOICE Mode                                 | FDD                                                         |
| - Power offset Pp-m                           | 0 dB                                                        |
| - PRACH partitioning                          |                                                             |
| - Access Service Class                        |                                                             |
| - ASC Setting                                 | Not Present                                                 |
| - ASC Setting                                 | 1.5.1.1.00011.                                              |
| - CHOICE mode                                 | FDD                                                         |
|                                               |                                                             |
| - Available signature Start Index             | 0 (ASC#1)                                                   |
| - Available signature End Index               | 7 (ASC#1)                                                   |
| - Assigned Sub-Channel Number                 | '1111'B                                                     |
|                                               | The first/ leftmost bit of the bit string contains the most |
|                                               | significant bit of the Assigned Sub-Channel Number.         |
| - ASC Setting                                 | Not Present                                                 |
|                                               |                                                             |

- ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting
- CHOICE mode - Available signature Start Index
- Available signature End Index - Assigned Sub-Channel Number
- ASC Setting - ASC Setting - CHOICE mode
- Available signature Start Index - Available signature End Index
- Assigned Sub-Channel Number

- Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - CHOICE mode

- Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max

- RACH transmission parameters

- Mmax - NB01min - NB01max - AICH info

- Channelisation code - STTD indicator

- AICH transmission timing

- Secondary CCPCH system information - Secondary CCPCH info

- Secondary scrambling code - STTD indicator - Spreading factor - Code number

- CHOICE mode

- Pilot symbol existence - TFCI existence

- Fixed or Flexible position - Timing offset

- TFCS - CHOICE TFCI signalling - TFCI Field 1 information

- CHOICE TFCS representation

- TFCS complete reconfiguration information

- CHOICE CTFC Size

**FDD** 0 (ASC#3) 7 (ASC#3) '1111'B

The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.

FDD 0 (ASC#5) 7 (ASC#5) '1111'B

The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.

Not Present

FDD 0 (ASC#7) 7 (ASC#7) '1111'B

The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.

0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 0.9 (for ASC#7)

6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) FDD 31 -10

3dB 4

3 slot 10 slot

3 **FALSE** 

(For 3 SCCPCHs)

(SCCPCH for standalone PCH)

**FDD** Not Present **FALSE** 128 **FALSE FALSE** Fixed 30

Normal

Complete reconfiguration

2 bit

| 15 34.106 Version 5.1.0 Release 5             |
|-----------------------------------------------|
| CTFC information                              |
| - CTFC information                            |
| - Power offset information                    |
| CTFC information     Power offset information |
| - FACH/PCH information                        |
| - TFS                                         |
| - CHOICE Transport channel type               |
| - Dynamic Transport format information        |
| - RLC Size                                    |
| - Number of TB and TTI List                   |
| - Number of Transport blocks                  |
| - Number of Transport blocks                  |
| - CHOICE Mode                                 |
| - CHOICE Logical Channel List                 |
| - Semi-static Transport Format information    |
| - Transmission time interval                  |
| - Type of channel coding                      |
| - Coding Rate                                 |
| - Rate matching attribute                     |
| - CRC size                                    |
| - Transport Channel Identity                  |
| - CTCH indicator                              |
| - PICH info                                   |
| - CHOICE mode                                 |
| - Channelisation code                         |
| - Number of PI per frame                      |
| - STTD indicator                              |
| - Secondary CCPCH info                        |
| - CHOICE mode                                 |
| - Secondary scrambling code                   |
| - STTD indicator                              |
| - Spreading factor                            |
| - Code number                                 |
| - Pilot symbol existence                      |
| - TFCI existence                              |
| - Fixed or Flexible position                  |
| position                                      |
| - Timing offset                               |
|                                               |
| - TFCS                                        |
| - CHOICE TFCI signalling                      |
| - TFCI Field 1 information                    |
| - CHOICE TFCS representation                  |
| - TFCS complete reconfiguration information   |
| - CHOICE CTFC Size - CTFC information         |
| - CTPC information - Power offset information |
| - CTFC information                            |
| - Power offset information                    |
| - CTFC information                            |
| - Power offset information                    |
| - CTFC information                            |
| - Power offset information                    |
| - CTFC information                            |
| - Power offset information                    |
| - FACH/PCH information                        |
| - TFS                                         |
| - CHOICE Transport channel type               |
| - Dynamic Transport format information        |
| - RLC Size                                    |
| - Number of TB and TTI List                   |
| - Number of Transport blocks                  |
| - Number of Transport blocks                  |
| - Number of Transport blocks                  |
| - CHOICE Mode                                 |

- CHOICE Mode

- CHOICE Logical Channel List

- Transmission time interval

- Semi-static Transport Format information

```
Not Present
Not Present
(PCH)
Common transport channels
240
0
FDD
ALL
10 ms
Convolutional
1/2
230
16 bit
12 (for PCH)
FALSE
FDD
2
18
FALSE
(SCCPCH including two FACHs)
FDD
Not Present
FALSE
64
FALSE
Not Present
Absence of this IE is equivalent to default value "TRUE"
Not Present
Absence of this IE is equivalent to default value "Flexible"
Not Present
Absence of this IE is equivalent to default value 0
Normal
Complete reconfiguration
4 bit
Not Present
Not Present
Not Present
Not Present
Not Present
(FACH)
Common transport channels
168
0
2
FDD
ALL
```

10 ms

| TS 34.108 version 5.1.0 Release 5                                   | 75                             |
|---------------------------------------------------------------------|--------------------------------|
| - Type of channel coding                                            | Convolutional                  |
| - Coding Rate                                                       | 1/2                            |
| - Rate matching attribute                                           | 220                            |
| - CRC size                                                          | 16 bit                         |
| - Transport Channel Identity                                        | 13 (for FACH)                  |
| - CTCH indicator                                                    | FALSE                          |
| - TFS                                                               | (FACH)                         |
| - CHOICE Transport channel type                                     | Common transport channels      |
| - Dynamic Transport format information                              | ·                              |
| - RLC Size                                                          | 360                            |
| <ul> <li>Number of TB and TTI List</li> </ul>                       |                                |
| <ul> <li>Number of Transport blocks</li> </ul>                      | 0                              |
| <ul> <li>Number of Transport blocks</li> </ul>                      | 1                              |
| - CHOICE Mode                                                       | FDD                            |
| - CHOICE Logical Channel List                                       | ALL                            |
| - Semi-static Transport Format information                          | 10                             |
| - Transmission time interval                                        | 10 ms                          |
| - Type of channel coding                                            | Turbo                          |
| - Rate matching attribute                                           | 130                            |
| - CRC size                                                          | 16bit                          |
| - Transport Channel Identity - CTCH indicator                       | 14 (for FACH)<br>FALSE         |
| - Secondary CCPCH info                                              | (SCCPCH including two FAC      |
| - CHOICE mode                                                       | FDD                            |
| - Secondary scrambling code                                         | Not Present                    |
| - STTD indicator                                                    | FALSE                          |
| - Spreading factor                                                  | 64                             |
| - Code number                                                       | 2                              |
| - Pilot symbol existence                                            | FALSE                          |
| - TFCI existence                                                    | Not Present                    |
|                                                                     | Absence of this IE is equivale |
| - Fixed or Flexible position                                        | Not Present                    |
|                                                                     | Absence of this IE is equivale |
| - Timing offset                                                     | 90                             |
| - TFCS                                                              |                                |
| - CHOICE TFCI signalling                                            | Normal                         |
| - TFCI Field 1 information                                          |                                |
| - CHOICE TFCS representation                                        | Complete reconfiguration       |
| - TFCS complete reconfiguration information                         | 4 1.4                          |
| - CHOICE CIFC Size                                                  | 4 bit                          |
| <ul><li>CTFC information</li><li>Power offset information</li></ul> | 0<br>Not Present               |
| - CTFC information                                                  | 1 1                            |
| - Power offset information                                          | Not Present                    |
| - CTFC information                                                  | 2                              |
| - Power offset information                                          | Not Present                    |
| - CTFC information                                                  | 3                              |
| - Power offset information                                          | Not Present                    |
| - CTFC information                                                  | 4                              |
| - Power offset information                                          | Not Present                    |
| - FACH/PCH information                                              |                                |
| - TFS                                                               | (FACH)                         |
| - CHOICE Transport channel type                                     | Common transport channels      |
| - Dynamic Transport format information                              | ·                              |
| - RLC Size                                                          | 168                            |
| - Number of TB and TTI List                                         |                                |
| <ul> <li>Number of Transport blocks</li> </ul>                      | 0                              |
| Number of Transport blocks                                          | 1 4                            |

360 0 1 **FDD** ALL 10 ms Turbo 130 16bit 14 (for FACH) **FALSE** (SCCPCH including two FACHs) FDD Not Present **FALSE** 64 **FALSE** Not Present Absence of this IE is equivalent to default value "TRUE" Not Present Absence of this IE is equivalent to default value "Flexible" 90 Normal Complete reconfiguration 4 bit n Not Present Not Present Not Present 3 Not Present Not Present (FACH) Common transport channels 168 0 1 FDD ALL 10 ms Convolutional 1/2 220 16 bit 16 (for FACH) **FALSE** 

- CHOICE Mode

- Coding Rate

- CRC size

- Number of Transport blocks

- Number of Transport blocks

- CHOICE Logical Channel List

- Transmission time interval

- Type of channel coding

- Rate matching attribute

- Transport Channel Identity

- Semi-static Transport Format information

**ETSI** 

| - TFS                                                        | (FACH)                    |
|--------------------------------------------------------------|---------------------------|
| - CHOICE Transport channel type                              | Common transport channels |
| <ul> <li>Dynamic Transport format information</li> </ul>     |                           |
| - RLC Size                                                   | 360                       |
| <ul> <li>Number of TB and TTI List</li> </ul>                |                           |
| - Number of Transport blocks                                 | 0                         |
| <ul> <li>Number of Transport blocks</li> </ul>               | 1                         |
| - CHOICE Mode                                                | FDD                       |
| - CHOICE Logical Channel List                                | ALL                       |
| <ul> <li>Semi-static Transport Format information</li> </ul> |                           |
| - Transmission time interval                                 | 10 ms                     |
| - Type of channel coding                                     | Turbo                     |
| - Rate matching attribute                                    | 130                       |
| - CRC size                                                   | 16bit                     |
| - Transport Channel Identity                                 | 17 (for FACH)             |
| - CTCH indicator                                             | FALSE                     |
| - CBS DRX Level 1 information                                | Not Present               |

Contents of System Information Block type 5 (3.84 Mcps TDD)

<FFS>

Contents of System Information Block type 5 (1.28 Mcps TDD)

<FFS>

### 6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 100                                        |

Contents of System Information Block type 11 for cell No.1 (FDD)

See sub-clause 6.1.0b for contents of System Information Block type 11 (FDD) for cell 1.

Contents of System Information Block type 12 in connected mode for cell No.1 (FDD)

See sub-clause 6.1.0b for contents of System Information Block type 12 (FDD) for cell 1.

Default settings for cell No.1 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 0                                          |

Contents of System Information Block type 11 for cell No.1 (TDD)

See sub-clause 6.1.0b for contents of System Information Block type 11 (TDD) for cell 1.

Contents of System Information Block type 12 in connected mode for cell No.1 (TDD)

See sub-clause 6.1.0b for contents of System Information Block type 12 (TDD) for cell 1.

#### Cell No.2

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.2 are identical to those of cell No.1 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 0010B |
|---------------|--------------------------------|
| URA identity  | 0000 0000 0000 0001B           |

### Default settings for cell No.2 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 150                                        |

Contents of System Information Block type 11 for cell No.2 (FDD)

| - Intra-frequency measurement system             | A1, A2 |                                                                                            |
|--------------------------------------------------|--------|--------------------------------------------------------------------------------------------|
| information                                      |        |                                                                                            |
| - New intra-frequency cells                      |        |                                                                                            |
| - Intra-frequency cell id<br>- Cell info         |        | 2 Same content as specified for Intra-                                                     |
| - Cell IIIIO                                     |        | frequency cell id=1 (serving cell) in SIB11                                                |
|                                                  |        | for Cell 1 in sub-clause 6.1.0b with the                                                   |
|                                                  |        | exception that value for Primary scrambling                                                |
|                                                  |        | code shall be according to clause titled<br>"Default settings for cell No.2 (FDD)" in      |
|                                                  |        | clause 6.1.4                                                                               |
| - Intra-frequency cell id                        |        | 1                                                                                          |
| - Cell info                                      |        | Same content as specified for Intra-<br>frequency cell id=2 in SIB11 for Cell 1 in         |
|                                                  |        | sub-clause 6.1.0b with the exception that                                                  |
|                                                  |        | value for Primary scrambling code shall be                                                 |
|                                                  |        | according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4          |
| - Intra-frequency cell id                        |        | 3                                                                                          |
| - Cell info                                      |        | Same content as specified for Intra-                                                       |
|                                                  |        | frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b                               |
| - Intra-frequency cell id                        | A2     | 7                                                                                          |
| - Cell info                                      |        | Same content as specified for Intra-                                                       |
|                                                  |        | frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b                               |
| - Intra-frequency cell id                        |        | 8                                                                                          |
| - Cell info                                      |        | Same content as specified for Intra-                                                       |
|                                                  |        | frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b                               |
|                                                  |        | 0.000 0.1100                                                                               |
| - Inter-frequency measurement system information | A1, A2 |                                                                                            |
|                                                  |        |                                                                                            |
| - New inter-frequency cells                      |        |                                                                                            |
| - Inter frequency cell id<br>- Frequency info    |        | Same content as specified for Inter-                                                       |
| a requestion with                                |        | frequency cell id=4 in SIB11 for Cell 1 in                                                 |
| - Cell info                                      |        | sub-clasue 6.1.0b                                                                          |
| - Cell IIIIO                                     |        | Same content as specified for Inter-<br>frequency cell id=4 in SIB11 for Cell 1 in         |
|                                                  |        | sub-clasue 6.1.0b                                                                          |
| - Inter frequency cell id<br>- Frequency info    |        | 5 Same content as specified for Inter-                                                     |
| - Frequency inio                                 |        | frequency cell id=5 in SIB11 for Cell 1 in                                                 |
|                                                  |        | sub-clasue 6.1.0b                                                                          |
| - Cell info                                      |        | Same content as specified for Inter-<br>frequency cell id=5 in SIB11 for Cell 1 in         |
|                                                  |        | sub-clasue 6.1.0b                                                                          |
| - Inter frequency cell id                        |        | 6                                                                                          |
| - Frequency info                                 |        | Same content as specified for Inter-<br>frequency cell id=6 in SIB11 for Cell 1 in         |
|                                                  |        | sub-clasue 6.1.0b                                                                          |
| - Cell info                                      |        | Same content as specified for Inter-                                                       |
|                                                  |        | frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b                               |
|                                                  |        | 555 5555 511155                                                                            |
| - Inter-RAT cell info list                       | A2     |                                                                                            |
| <br>- New inter-RAT cells                        |        |                                                                                            |
| - Inter-RAT cell id                              |        | 9                                                                                          |
| - CHOICE Radio Access Technology                 |        | GSM                                                                                        |
| - GSM                                            |        | Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b |
| - Inter-RAT cell id                              |        | 10                                                                                         |
|                                                  |        | ·                                                                                          |

| - CHOICE <i>Radio Access Technology</i><br>- GSM | GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b |  |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------|--|
|                                                  | 6.1.0b                                                                                          |  |

| Condition | Explanation                        |  |
|-----------|------------------------------------|--|
| A1        | FDD cell environment               |  |
| A2        | FDD/GSM inter-RAT cell environment |  |

# Default settings for cell No.2 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 4                                          |

Contents of System Information Block type 11 for cell No.2 (TDD)

| - Intra-frequency measurement system             |                                                                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| information                                      |                                                                                                                    |
|                                                  |                                                                                                                    |
| - New intra-frequency cells                      |                                                                                                                    |
| - Intra-frequency cell id                        | 2                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=1                                                            |
|                                                  | (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with                                                       |
|                                                  | the exception that value for Primary scrambling code shall                                                         |
|                                                  | be according to clause titled "Default settings for cell No.2                                                      |
| lates from a superior all in                     | (TDD)" in clause 6.1.4                                                                                             |
| - Intra-frequency cell id                        |                                                                                                                    |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according |
|                                                  | to clause titled "Default settings for cell No.1 (TDD)" in                                                         |
|                                                  | clause 6.1.4                                                                                                       |
| - Intra-frequency cell id                        | 3                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=3 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b                                                                              |
| - Intra-frequency cell id                        | 7                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=7 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b                                                                              |
| - Intra-frequency cell id                        | 8                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=8 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b                                                                              |
| Interference and accommon to contemp             |                                                                                                                    |
| - Inter-frequency measurement system information |                                                                                                                    |
| information                                      |                                                                                                                    |
| - New inter-frequency cells                      |                                                                                                                    |
| - Inter frequency cell id                        | 4                                                                                                                  |
| - Frequency info                                 | Same content as specified for Inter-frequency cell id=4 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                              |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                              |
| - Inter frequency cell id                        | 5                                                                                                                  |
| - Frequency info                                 | Same content as specified for Inter-frequency cell id=5 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                              |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=5 in                                                         |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                              |
| - Inter frequency cell id                        |                                                                                                                    |
| - Frequency info                                 | Same content as specified for Inter-frequency cell id=6 in                                                         |
| - Cell info                                      | SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=6 in                   |
| - Cell IIIIO                                     | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                              |
|                                                  | SIDITION CENTIN SUD-CIASUE 0.1.00                                                                                  |
| ••••                                             |                                                                                                                    |

### Cell No.3

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.3 are identical to those of cell No.1 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 0011B |
|---------------|--------------------------------|
| URA identity  | 0000 0000 0000 0010B           |

# Default settings for cell No.3 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 200                                        |

Contents of System Information Block type 11 for cell No.3 (FDD)

| - Intra-frequency measurement system information                                        | A1, A2 |                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| New intra-frequency cells - Intra-frequency cell id - Cell info                         |        | 3 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id<br>- Cell info                                                |        | Same content as specified for Intra-frequency cell id=2 (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4  |
| - Intra-frequency cell id<br>- Cell info                                                |        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                       |
| - Intra-frequency cell id<br>- Cell info                                                | A1     | 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                     |
| - Intra-frequency cell id<br>- Cell info                                                |        | 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                     |
| - Inter-frequency measurement system information                                        | A1, A2 |                                                                                                                                                                                                                                                                        |
| - New inter-frequency cells - Inter frequency cell id - Frequency info                  |        | 4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue                                                                                                                                                                            |
| - Cell info                                                                             |        | 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                |
| - Inter frequency cell id<br>- Frequency info                                           |        | 5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                  |
| - Cell info                                                                             |        | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                       |
| - Inter frequency cell id<br>- Frequency info                                           |        | 6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                  |
| - Cell info                                                                             |        | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                       |
| - Inter-RAT cell info list                                                              | A2     |                                                                                                                                                                                                                                                                        |
| - New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM |        | 9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                       |
| - Inter-RAT cell id<br>- CHOICE <i>Radio Access Technology</i>                          |        | 10<br>  GSM                                                                                                                                                                                                                                                            |

| - GSM | Same content as specified for inter-RAT cell   |
|-------|------------------------------------------------|
|       | id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b |
|       |                                                |

| Condition | Explanation                        |  |
|-----------|------------------------------------|--|
| A1        | FDD cell environment               |  |
| A2        | FDD/GSM inter-RAT cell environment |  |

# Default settings for cell No.3 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 8                                          |

Contents of System Information Block type 11 for cell No.3 (TDD)

| - Intra-frequency measurement system |                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------------|
| information                          |                                                                                           |
|                                      |                                                                                           |
| - New intra-frequency cells          |                                                                                           |
| - Intra-frequency cell id            | 3                                                                                         |
| - Cell info                          | Same content as specified for Intra-frequency cell id=1                                   |
|                                      | (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with                              |
|                                      | the exception that value for Primary scrambling code shall                                |
|                                      | be according to clause titled "Default settings for cell No.3                             |
|                                      | (TDD)" in clause 6.1.4                                                                    |
| - Intra-frequency cell id            | 11 1                                                                                      |
| - Cell info                          | Same content as specified for Intra-frequency cell id=2                                   |
|                                      | (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b                                  |
|                                      | with the exception that value for Primary scrambling code                                 |
|                                      | shall be according to clause titled "Default settings for cell                            |
|                                      | No.1 (TDD)" in clause 6.1.4                                                               |
| - Intra-frequency cell id            | 2                                                                                         |
| - Cell info                          | Same content as specified for Intra-frequency cell id=2 in                                |
|                                      | SIB11 for Cell 1 in sub-clause 6.1.0b                                                     |
| - Intra-frequency cell id            | 7                                                                                         |
| - Cell info                          | Same content as specified for Intra-frequency cell id=7 in                                |
|                                      | SIB11 for Cell 1 in sub-clause 6.1.0b                                                     |
| - Intra-frequency cell id            | 8                                                                                         |
| - Cell info                          | Same content as specified for Intra-frequency cell id=8 in                                |
|                                      | SIB11 for Cell 1 in sub-clause 6.1.0b                                                     |
| - Inter-frequency measurement system |                                                                                           |
| information                          |                                                                                           |
|                                      |                                                                                           |
| - New inter-frequency cells          |                                                                                           |
| - Inter frequency cell id            | 4                                                                                         |
| - Frequency info                     | Same content as specified for Inter-frequency cell id=4 in                                |
|                                      | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                     |
| - Cell info                          | Same content as specified for Inter-frequency cell id=4 in                                |
|                                      | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                     |
| - Inter frequency cell id            | 5                                                                                         |
| - Frequency info                     | Not Present                                                                               |
|                                      | Absence of this IE is equivalent to value of the previous                                 |
| 0.11: (                              | "frequency info" in the list.                                                             |
| - Cell info                          | Same content as specified for Inter-frequency cell id=5 in                                |
| Interference and Sel                 | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                     |
| - Inter frequency cell id            | 6 Not Droppet                                                                             |
| - Frequency info                     | Not Present                                                                               |
|                                      | Absence of this IE is equivalent to value of the previous                                 |
| - Cell info                          | "frequency info" in the list.  Same content as specified for Inter-frequency cell id=6 in |
|                                      | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                     |
|                                      | SIDITION CENTIN SUD-CIASUE 0.1.00                                                         |
|                                      |                                                                                           |

### Cell No.4

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.4 are identical to those of cell No.1 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 0100B |
|---------------|--------------------------------|
| URA identity  | 0000 0000 0000 0010B           |

# Default settings for cell No.4 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 250                                        |

Contents of System Information Block type 11 for cell No.4 (FDD)

| - Intra-frequency measurement system                                                                                                            | A1, A2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| information                                                                                                                                     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| - New intra-frequency cells - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info |        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in subclause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4  Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4  Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b |
|                                                                                                                                                 |        | with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| - Inter-frequency measurement system information                                                                                                | A1, A2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| - New inter-frequency cells - Inter-frequency cell id - Frequency info                                                                          |        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| - UARFCŇ uplink(Nu)                                                                                                                             |        | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| - UARFCN downlink(Nd)<br>- Cell info                                                                                                            |        | Reference to table 6.1.2 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                    |
| - Inter-frequency cell id                                                                                                                       |        | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| - Frequency info                                                                                                                                |        | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - Cell info                                                                                                                                     |        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                                                        |
| Inter-frequency cell id     Frequency info                                                                                                      |        | 3<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| - r requerioy iiiio                                                                                                                             |        | Absence of this IE is equivalent to value of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| - Cell info                                                                                                                                     |        | previous "frequency info" in the list.  Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                |
| - Inter-frequency cell id                                                                                                                       | A1     | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| - Frequency info                                                                                                                            |    | Not Present                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info                                                                                                                                 |    | Absence of this IE is equivalent to value of the previous "frequency info" in the list.  Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause |
| - Inter-frequency cell id                                                                                                                   |    | titled "Default settings for cell No.7 (FDD)" in clause 6.1.4                                                                                                                                                                                                                    |
| - Frequency info                                                                                                                            |    | Not Present  Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                             |
| - Cell info                                                                                                                                 |    | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4                            |
| - Inter-RAT cell info list                                                                                                                  | A2 |                                                                                                                                                                                                                                                                                  |
| - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Inter-RAT cell id - CHOICE Radio Access Technology - GSM |    | 9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b 10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                              |

| Condition | Explanation                        |
|-----------|------------------------------------|
| A1        | FDD cell environment               |
| A2        | FDD/GSM inter-RAT cell environment |

# Default settings for cell No.4 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 12                                         |

Contents of System Information Block type 11 for cell No.4 (TDD)

#### - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4 - Inter-frequency measurement system information - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) Reference to table 6.1.7 for Cell 1 - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 - Inter-frequency cell id - Frequency info Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 - Inter-frequency cell id Not Present - Frequency info Absence of this IE is equivalent to value of the previous "frequency info" in the list. - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 - Inter-frequency cell id - Frequency info Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 - Inter-frequency cell id - Frequency info Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.

| - Cell info | Same content as specified for Inter-frequency cell id=4 in |
|-------------|------------------------------------------------------------|
|             | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception   |
|             | that value for Primary scrambling code shall be according  |
|             | to clause titled "Default settings for cell No.8 (FDD)" in |
|             | clause 6.1.4                                               |

### Cell No.5

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.5 are identical to those of cell No.4 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 0101B |
|---------------|--------------------------------|
| URA identity  | 0000 0000 0000 0011B           |

### Default settings for cell No.5 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 300                                        |

Contents of System Information Block type 11 for cell No.5 (FDD)

| - Intra-frequency measurement system                              | A1, A2 |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| information                                                       | A1, A2 |                                                                                                                                                                                                                                                                                                                |
| - New intra-frequency cells - Intra-frequency cell id - Cell info |        | 5 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled                                                                                                |
| - Intra-frequency cell id<br>- Cell info                          |        | "Default settings for cell No.5 (FDD)" in clause 6.1.4 4 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4 |
| - Intra-frequency cell id<br>- Cell info                          |        | 6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4                                                        |
| - Inter-frequency measurement system information                  | A1, A2 |                                                                                                                                                                                                                                                                                                                |
| - New inter-frequency cells - Inter-frequency cell id             |        | 1                                                                                                                                                                                                                                                                                                              |
| - Frequency info<br>- UARFCN uplink(Nu)                           |        | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                                                      |
| - UARFCN downlink(Nd)<br>- Cell info                              |        | Reference to table 6.1.2 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4                      |
| - Inter-frequency cell id<br>- Frequency info                     |        | 2 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                                          |
| - Cell info                                                       |        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4                                                          |
| - Inter-frequency cell id<br>- Frequency info                     |        | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                                            |
| - Cell info                                                       |        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4                                                          |
| - Inter-frequency cell id<br>- Frequency info                     | A1     | 7 Not Present Absence of this IE is equivalent to value of the                                                                                                                                                                                                                                                 |
| - Cell info                                                       |        | previous "frequency info" in the list.  Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4                  |

| - Inter-frequency cell id<br>- Frequency info                                                                                                |    | 8 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info                                                                                                                                  |    | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4 |
| - Inter-RAT cell info list                                                                                                                   | A2 |                                                                                                                                                                                                                                                       |
| - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM  - Inter-RAT cell id - CHOICE Radio Access Technology - GSM |    | 9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b 10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                   |

| Condition | Explanation                        |  |
|-----------|------------------------------------|--|
| A1        | FDD cell environment               |  |
| A2        | FDD/GSM inter-RAT cell environment |  |

# Default settings for cell No.5 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 114                                        |

Contents of System Information Block type 11 for cell No.5 (TDD)

| - Intra-frequency measurement system information |                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  |                                                                                                                                                                                                                                                                                           |
| - New intra-frequency cells                      |                                                                                                                                                                                                                                                                                           |
| - Intra-frequency cell id                        | 5                                                                                                                                                                                                                                                                                         |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4                      |
| - Intra-frequency cell id                        | 4                                                                                                                                                                                                                                                                                         |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4                                     |
| - Intra-frequency cell id<br>- Cell info         | 6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4                                   |
| - Inter-frequency measurement system information |                                                                                                                                                                                                                                                                                           |
| - New inter-frequency cells                      |                                                                                                                                                                                                                                                                                           |
|                                                  | 1                                                                                                                                                                                                                                                                                         |
| - Inter-frequency cell id                        | 1                                                                                                                                                                                                                                                                                         |
| - Frequency info                                 |                                                                                                                                                                                                                                                                                           |
| - UARFCN downlink(Nt) - Cell info                | Reference to table 6.1.7 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 |
| - Inter-frequency cell id                        | 2                                                                                                                                                                                                                                                                                         |
| - Frequency info                                 | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                       |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4                                     |
| - Inter-frequency cell id                        | 3                                                                                                                                                                                                                                                                                         |
| - Frequency info                                 | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                       |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4                                     |
| - Inter-frequency cell id                        | 7                                                                                                                                                                                                                                                                                         |
| - Frequency info                                 | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                       |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4                                     |
| - Inter-frequency cell id                        | 8                                                                                                                                                                                                                                                                                         |
| - Frequency info                                 | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                       |

| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
|             | that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |

### Cell No.6

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.6 are identical to those of cell No.4 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 0000 0110B |
|---------------|-------------------------------------|
| URA identity  | 0000 0000 0000 0011B                |

### Default settings for cell No.6 (FDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 350                                        |

Contents of System Information Block type 11 for cell No.6 (FDD)

| - Intra-frequency measurement system information                                                                                                | A1, A2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - New intra-frequency cells - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info |        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in subclause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4  Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4  Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4 |
| - Inter-frequency measurement system information                                                                                                | A1, A2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN uplink(Nu)  - UARFCN downlink(Nd) - Cell info                   |        | Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 Reference to table 6.1.2 for Cell 1 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                               |
| - Inter-frequency cell id<br>- Frequency info                                                                                                   |        | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| - Cell info                                                                                                                                     |        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| - Inter-frequency cell id<br>- Frequency info                                                                                                   |        | 3 Not Present Absence of this IE is equivalent to value of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| - Cell info                                                                                                                                     |        | previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| - Inter-frequency cell id                                                                                                                       | A1     | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| - Frequency info - Cell info                                                                                                                |    | Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in                 |
|---------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Inter-frequency cell id - Frequency info  - Cell info                                                                                     |    | clause 6.1.4  8 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in |
| <br>- Inter-RAT cell info list                                                                                                              | A2 | clause 6.1.4                                                                                                                                                                                                                                                                                                                                                 |
| - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Inter-RAT cell id - CHOICE Radio Access Technology - GSM | ,  | 9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b 10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                          |

|   | Condition | Explanation                        |  |
|---|-----------|------------------------------------|--|
| Ī | A1        | FDD cell environment               |  |
|   | A2        | FDD/GSM inter-RAT cell environment |  |

# Default settings for cell No.6 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 119                                        |

Contents of System Information Block type 11 for cell No.6 (TDD)

|                                                  | 1                                                             |
|--------------------------------------------------|---------------------------------------------------------------|
| - Intra-frequency measurement system information |                                                               |
| - New intra-frequency cells                      |                                                               |
|                                                  |                                                               |
| - Intra-frequency cell id                        | 6                                                             |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=1       |
|                                                  | (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with  |
|                                                  | the exception that value for Primary scrambling code shall    |
|                                                  | be according to clause titled "Default settings for cell No.6 |
|                                                  | (TDD)" in clause 6.1.4                                        |
| Intra frequency call id                          | 4                                                             |
| - Intra-frequency cell id                        | ·                                                             |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in    |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception      |
|                                                  | that value for Primary scrambling code shall be according     |
|                                                  | to clause titled "Default settings for cell No.4 (TDD)" in    |
|                                                  | clause 6.1.4                                                  |
| - Intra-frequency cell id                        | 5                                                             |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in    |
| - Cell IIIIO                                     |                                                               |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception      |
|                                                  | that value for Primary scrambling code shall be according     |
|                                                  | to clause titled "Default settings for cell No.5 (TDD)" in    |
|                                                  | clause 6.1.4                                                  |
|                                                  |                                                               |
| - Inter-frequency measurement system             |                                                               |
| information                                      |                                                               |
| Illioillation                                    |                                                               |
|                                                  |                                                               |
| - New inter-frequency cells                      |                                                               |
| - Inter-frequency cell id                        | 1                                                             |
| - Frequency info                                 |                                                               |
| - UARFCN downlink(Nt)                            | Reference to table 6.1.7 for Cell 1                           |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in    |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception      |
|                                                  | that value for Primary scrambling code shall be according     |
|                                                  |                                                               |
|                                                  | to clause titled "Default settings for cell No.1 (TDD)" in    |
|                                                  | clause 6.1.4                                                  |
| - Inter-frequency cell id                        | 2                                                             |
| - Frequency info                                 | Not Present                                                   |
|                                                  | Absence of this IE is equivalent to value of the previous     |
|                                                  | "frequency info" in the list.                                 |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in    |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception      |
|                                                  | that value for Primary scrambling code shall be according     |
|                                                  |                                                               |
|                                                  | to clause titled "Default settings for cell No.2 (TDD)" in    |
|                                                  | clause 6.1.4                                                  |
| - Inter-frequency cell id                        | 3                                                             |
| - Frequency info                                 | Not Present                                                   |
|                                                  | Absence of this IE is equivalent to value of the previous     |
|                                                  | "frequency info" in the list.                                 |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in    |
| - 0611 11110                                     | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception      |
|                                                  |                                                               |
|                                                  | that value for Primary scrambling code shall be according     |
|                                                  | to clause titled "Default settings for cell No.3 (TDD)" in    |
|                                                  | clause 6.1.4                                                  |
| - Inter-frequency cell id                        | 7                                                             |
| - Frequency info                                 | Not Present                                                   |
| , ,                                              | Absence of this IE is equivalent to value of the previous     |
|                                                  | "frequency info" in the list.                                 |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in    |
| - Cell IIIIO                                     |                                                               |
|                                                  | SIB11 for Cell 1 in sub-clause 6.1.0b with the exception      |
|                                                  | that value for Primary scrambling code shall be according     |
|                                                  | to clause titled "Default settings for cell No.7 (TDD)" in    |
|                                                  | clause 6.1.4                                                  |
| - Inter-frequency cell id                        | 8                                                             |
| - Frequency info                                 | Not Present                                                   |
| r requerity into                                 |                                                               |
|                                                  | Absence of this IE is equivalent to value of the previous     |
|                                                  | "frequency info" in the list.                                 |
|                                                  |                                                               |

| - Cell info | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *****       | 1                                                                                                                                                                                                                                                     |

### Cell No.7

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.7 are identical to those of cell No.1 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 0000 0111B |
|---------------|-------------------------------------|
| URA identity  | 0000 0000 0000 0100B                |

### Default settings for cell No.7 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 400                                        |

Contents of System Information Block type 11 for cell No.7 (FDD)

#### - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=4 in - Cell info SIB11 for Cell 1 in sub-clasue 6.1.0b - Inter frequency cell id - Frequency info Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b - Cell info Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b - Inter frequency cell id - Frequency info Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=6 in - Cell info SIB11 for Cell 1 in sub-clasue 6.1.0b

#### Default settings for cell No.7 (TDD):

| Downlink input level         | Reference clause 6 Parameter Set           |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 123                                        |

Contents of System Information Block type 11 for cell No.7 (TDD)

#### - Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b - Intra-frequency cell id Same content as specified for Intra-frequency cell id=8 in - Cell info SIB11 for Cell 1 in sub-clause 6.1.0b - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b - Inter frequency cell id - Frequency info Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b - Cell info Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b - Inter frequency cell id - Frequency info Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=6 in - Cell info SIB11 for Cell 1 in sub-clasue 6.1.0b

#### Cell No.8

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.8 are identical to those of cell No.1 with the following exceptions:

| Cell identity | 0000 0000 0000 0000 0000 1000B |
|---------------|--------------------------------|
| URA identity  | 0000 0000 0000 0100B           |

Default settings for cell No.8 (FDD):

| Downlink input level         | Reference clause 6.10 Parameter Set        |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 Parameter Set        |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 450                                        |

Contents of System Information Block type 11 for cell No.8 (FDD)

| - Intra-frequency measurement system           |                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| information                                    |                                                                                                                         |
|                                                |                                                                                                                         |
| - New intra-frequency cells                    |                                                                                                                         |
| - Intra-frequency cell id                      | 8                                                                                                                       |
| - Cell info                                    | Same content as specified for Intra-frequency cell id=1                                                                 |
|                                                | (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall |
|                                                | be according to clause titled "Default settings for cell No.8                                                           |
|                                                | (FDD)" in clause 6.1.4                                                                                                  |
| - Intra-frequency cell id                      | 1                                                                                                                       |
| - Cell info                                    | Same content as specified for Intra-frequency cell id=2                                                                 |
|                                                | (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                |
|                                                | with the exception that value for Primary scrambling code                                                               |
|                                                | shall be according to clause titled "Default settings for cell                                                          |
|                                                | No.1 (FDD)" in clause 6.1.4                                                                                             |
| - Intra-frequency cell id                      | 2                                                                                                                       |
| - Cell info                                    | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b                        |
| - Intra-frequency cell id                      | 3                                                                                                                       |
| - Cell info                                    | Same content as specified for Intra-frequency cell id=3 in                                                              |
|                                                | SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                   |
| - Intra-frequency cell id                      | 7                                                                                                                       |
| - Cell info                                    | Same content as specified for Intra-frequency cell id=7 in                                                              |
|                                                | SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                   |
|                                                |                                                                                                                         |
| Inter-frequency measurement system information |                                                                                                                         |
| information                                    |                                                                                                                         |
| - New inter-frequency cells                    |                                                                                                                         |
| - Inter frequency cell id                      | 4                                                                                                                       |
| - Frequency info                               | Same content as specified for Inter-frequency cell id=4 in                                                              |
|                                                | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                   |
| - Cell info                                    | Same content as specified for Inter-frequency cell id=4 in                                                              |
|                                                | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                   |
| - Inter frequency cell id                      | 5                                                                                                                       |
| - Frequency info                               | Same content as specified for Inter-frequency cell id=5 in                                                              |
| - Cell info                                    | SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=5 in                        |
| - Cell IIIIO                                   | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                   |
| - Inter frequency cell id                      | 6                                                                                                                       |
| - Frequency info                               | Same content as specified for Inter-frequency cell id=6 in                                                              |
| - 1>                                           | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                   |
| - Cell info                                    | Same content as specified for Inter-frequency cell id=6 in                                                              |
|                                                | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                   |
|                                                |                                                                                                                         |

Default settings for cell No.8 (TDD):

| Downlink input level                   | Reference clause 6 Parameter Set           |
|----------------------------------------|--------------------------------------------|
| Uplink output power                    | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number           | Reference clause 6 Parameter Set           |
| Cell Channel Description               |                                            |
| <ul> <li>Primary CCPCH info</li> </ul> |                                            |
| - Cell parameters ID                   | 127                                        |

Contents of System Information Block type 11 for cell No.8 (TDD)

| - Intra-frequency measurement system information |                                                                                                                                                                                                                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  |                                                                                                                                                                                                                                                                       |
| - New intra-frequency cells                      |                                                                                                                                                                                                                                                                       |
| - Intra-frequency cell id                        | 8                                                                                                                                                                                                                                                                     |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=1                                                                                                                                                                                                               |
|                                                  | (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4                                                          |
| - Intra-frequency cell id                        | 1                                                                                                                                                                                                                                                                     |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id                        | 2                                                                                                                                                                                                                                                                     |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                      |
| - Intra-frequency cell id                        | 3                                                                                                                                                                                                                                                                     |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                      |
| - Intra-frequency cell id                        | 7                                                                                                                                                                                                                                                                     |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b                                                                                                                                                                      |
| - Inter-frequency measurement system information |                                                                                                                                                                                                                                                                       |
| - New inter-frequency cells                      |                                                                                                                                                                                                                                                                       |
| - Inter frequency cell id                        | 4                                                                                                                                                                                                                                                                     |
| - Frequency info                                 | Same content as specified for Inter-frequency cell id=4 in                                                                                                                                                                                                            |
| ,                                                | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                                                                                 |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=4 in                                                                                                                                                                                                            |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                                                                                 |
| - Inter frequency cell id                        | 5                                                                                                                                                                                                                                                                     |
| - Frequency info                                 | Same content as specified for Inter-frequency cell id=5 in                                                                                                                                                                                                            |
| ,                                                | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                                                                                 |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=5 in                                                                                                                                                                                                            |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                                                                                 |
| - Inter frequency cell id                        | 6                                                                                                                                                                                                                                                                     |
| - Frequency info                                 | Same content as specified for Inter-frequency cell id=6 in                                                                                                                                                                                                            |
| •                                                | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                                                                                 |
| - Cell info                                      | Same content as specified for Inter-frequency cell id=6 in                                                                                                                                                                                                            |
|                                                  | SIB11 for Cell 1 in sub-clasue 6.1.0b                                                                                                                                                                                                                                 |
|                                                  |                                                                                                                                                                                                                                                                       |
|                                                  |                                                                                                                                                                                                                                                                       |

### Cell No.9

Contents of System Information for cell No.9 (GSM)

See TS 51.010-1 [31], clause 10.1.2.

Default settings for cell No.9 (GSM):

See table 6.1.10

Cell No.10

Contents of System Information for cell No.10 (GSM)

See TS 51.010-1 [31], clause 10.1.2.

Default settings for cell No.10 (GSM):

See table 6.1.10

### Default Cell parameters Two PLMN in UTRAN test scenario

In this scenario two cell groups belong to two different PLMN, Cell 1,2,3,7,8 (for PLMN1) and Cell 4,5,6 (for PLMN2) shall be configured on two different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in subclause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3, 7, 8 contains cell No.1, 2, 3, 7, 8 in Intrafrequency measurement system information, and cell No.4, 5, 6 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.4,5,6 contains cell No.4,5,6 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to subclause 6.1.4.

Contents of System Information Block type 18 for cell No.1,2,3,7,8

| - Idle mode PLMN identities - PLMNs of intra-frequency cells list | Not Present  |
|-------------------------------------------------------------------|--------------|
| - PLMNs of inter-frequency cells list                             |              |
| - PLMN identity                                                   | Set to PLMN2 |
| - PLMNs of inter-RAT cells list                                   | Not present  |
| - Connected mode PLMN identities                                  | Not present  |

Contents of System Information Block type 18 for cell No.4,5,6

| Lella con a de Di MANI (de catitica   |              |
|---------------------------------------|--------------|
| - Idle mode PLMN identities           |              |
| - PLMNs of intra-frequency cells list | Not Present  |
| - PLMNs of inter-frequency cells list |              |
| - PLMN identity                       | Set to PLMN1 |
| - PLMNs of inter-RAT cells list       | Not present  |
| - Connected mode PLMN identities      | Not present  |

### Default Cell parameters Three PLMN in UTRAN test scenario

In this scenario three cell groups belong to three different PLMN, Cell 1, 2, 3 (for PLMN1), Cell 4, 5, 6 (for PLMN2) and Cell 7, 8 (for PLMN3) shall be configured on three different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in subclause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3 contains cell No.1, 2, 3 in Intra-frequency measurement system information, and cell No.4, 5, 6, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No. 4, 5, 6 contains cell No. 4, 5, 6 in Intrafrequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No. 7, 8 contains cell No. 7, 8 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 4, 5, 6 in Inter-frequency measurement system information.
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to subclause 6.1.4.

Contents of System Information Block type 18 for cell No.1,2,3,

| Not Present               |
|---------------------------|
| Set to PLMN2              |
| Set to PLMN2 Set to PLMN2 |
| Set to PLMN3              |
| Not present Not present   |
|                           |

Contents of System Information Block type 18 for cell No.4,5,6

| - Idle mode PLMN identities           |              |
|---------------------------------------|--------------|
| - PLMNs of intra-frequency cells list | Not Present  |
| - PLMNs of inter-frequency cells list |              |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN3 |
| - PLMNs of inter-RAT cells list       | Not present  |
| - Connected mode PLMN identities      | Not present  |

Contents of System Information Block type 18 for cell No.7,8

| - Idle mode PLMN identities           |              |
|---------------------------------------|--------------|
| - PLMNs of intra-frequency cells list | Not Present  |
| - PLMNs of inter-frequency cells list |              |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN2 |
| - PLMNs of inter-RAT cells list       | Not present  |
| - Connected mode PLMN identities      | Not present  |

# 6.1.5 Reference Radio Conditions for signalling test cases (FDD)

The following transmission parameters shall be used for signalling test cases only unless otherwise stated in the description of the individual test case.

Table 6.1.3 are the default settings for a non-suitable cell which is configured and always present whereas Table 6.1.4 is for a cell that is switched off. Cells configured according to Table 6.1.3 are for test cases in which it is necessary to make a cell unsuitable, and then subsequently make it suitable. This could be achieved by switching the cell off and then reconfiguration as in Table 6.1.4, but this takes a lot of time to do.

Table 6.1.1: Default settings for a serving cell in a single cell environment

| Parameter                    | Unit     | Cell 1       |  |
|------------------------------|----------|--------------|--|
| Cell type                    |          | Serving cell |  |
| UTRA RF Channel Number       |          | Channel 1    |  |
| Qqualmin                     | dB       | -24          |  |
| Qrxlevmin                    | dBm      | -81          |  |
| UE_TXPWR_MAX_RACH            | dBm      | 21           |  |
| CPICH Ec (see notes 1 and 2) | dBm/3.84 | -60          |  |
|                              | MHz      |              |  |

NOTE 1: The power level is specified in terms of CPICH\_Ec instead of CPICH\_RSCP as RSCP is a receiver measurement and only CPICH\_Ec can be directly controlled by the SS.

NOTE 2: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.

Table 6.1.2: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter                    | Unit            | Cell 1       | Cell 2                                               | Cell 4                                               |
|------------------------------|-----------------|--------------|------------------------------------------------------|------------------------------------------------------|
| Cell type                    |                 | Serving cell | Suitable<br>neighbour<br>intra-<br>frequency<br>cell | Suitable<br>neighbour<br>inter-<br>frequency<br>cell |
| UTRA RF Channel Number       |                 | Channel 1    | Channel 1                                            | Channel 2                                            |
| Qqualmin                     | dB              | -24          | -2                                                   | 24                                                   |
| Qrxlevmin                    | dBm             | -81          | -81                                                  |                                                      |
| UE_TXPWR_MAX_RACH            | dBm             | 21           | 21                                                   |                                                      |
| CPICH Ec (see notes 1 and 2) | dBm/3.84<br>MHz | -60          | -7                                                   | 0                                                    |

NOTE 1: The power level is specified in terms of CPICH\_Ec instead of CPICH\_RSCP as RSCP is a receiver measurement and only CPICH\_Ec can be directly controlled by the SS. NOTE 2: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.

Table 6.1.3: Default settings for a non-suitable cell

| Parameter         | Unit     | Level |
|-------------------|----------|-------|
| Qqualmin          | dB       | -24   |
| Qrxlevmin         | dBm      | -81   |
| UE_TXPWR_MAX_RACH | dBm      | 21    |
| CPICH_Ec          | dBm/3.84 | -90   |
|                   | MHz      |       |

NOTE 1: The power level is specified in terms of CPICH\_Ec instead of CPICH\_RSCP as RSCP is a receiver measurement and only CPICH\_Ec can be directly controlled by the SS

NOTE 2: The cell is not suitable according to TS 25.304, 5.2.3.1.2

Table 6.1.4: Default settings for a non-suitable "Off" cell

| Parameter         | Unit            | Level  |
|-------------------|-----------------|--------|
| Qqualmin          | dB              | -24    |
| Qrxlevmin         | dBm             | -81    |
| UE_TXPWR_MAX_RACH | dBm             | 21     |
| CPICH_Ec          | dBm/3.84        | ≤ -122 |
|                   | MH <sub>2</sub> |        |

NOTE 1: The power level is specified in terms of CPICH\_Ec instead of CPICH\_RSCP as RSCP is a receiver measurement and only CPICH\_Ec can be directly controlled by the SS.

NOTE 2: The cell is not suitable according to TS 25.304, 5.2.3.1.2.

Table 6.1.5: Default power levels of physical channels relative to CPICH\_Ec

| Unit | Level<br>Idle mode   | Level<br>Connected mode |
|------|----------------------|-------------------------|
| dB   | (NOTE)               | -5                      |
| dB   |                      | -2                      |
| dB   |                      | -2                      |
| dB   |                      | -5                      |
| dB   |                      | -2                      |
| dB   |                      | -5                      |
|      | dB<br>dB<br>dB<br>dB | Idle mode   dB          |

NOTE: This shall be less than –122 dBm to ensure the channel is considered as "off".

# 6.1.6 Reference Radio Conditions for signalling test cases (TDD)

The following transmission parameters shall be used for signalling test cases only unless otherwise stated in the description of the individual test case.

Table 6.1.6: Default settings for a serving cell in a single cell environment

| Parameter                                                  | Unit | Cell 1       |
|------------------------------------------------------------|------|--------------|
| Cell type                                                  |      | Serving cell |
| UTRA RF Channel Number                                     |      | Channel 1    |
| Qrxlevmin                                                  | dBm  | -81          |
| UE_TXPWR_MAX_RACH                                          | dBm  | 21           |
| PCCPCH RSCP                                                | dBm  | -60          |
| NOTE: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.123. |      |              |

Table 6.1.7: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter                                                   | Unit | Cell 1       | Cell 2                                               | Cell 4                                               |
|-------------------------------------------------------------|------|--------------|------------------------------------------------------|------------------------------------------------------|
| Cell type                                                   |      | Serving cell | Suitable<br>neighbour<br>intra-<br>frequency<br>cell | Suitable<br>neighbour<br>inter-<br>frequency<br>cell |
| UTRA RF Channel Number                                      |      | Channel 1    | Channel 1                                            | Channel 2                                            |
| Qrxlevmin                                                   | dBm  | -81          | -81 -81                                              |                                                      |
| UE_TXPWR_MAX_RACH                                           | dBm  | 21           | 21                                                   |                                                      |
| PCCPCH RSCP                                                 | dBm  | -60          | -7                                                   | 0                                                    |
| NOTE: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.123. |      |              |                                                      |                                                      |

Table 6.1.8: Default settings for a non-suitable cell

| Parameter                                                        | Unit | Level |
|------------------------------------------------------------------|------|-------|
| Qrxlevmin                                                        | dBm  | -81   |
| UE_TXPWR_MAX_RACH                                                | dBm  | 21    |
| PCCPCH RSCP                                                      | dBm  | -91   |
| NOTE: The cell is not suitable according to TS 25.304, 5.2.3.1.2 |      |       |

Table 6.1.9: Default settings for a non-suitable "Off" cell

| Parameter                                                         | Unit | Level  |
|-------------------------------------------------------------------|------|--------|
| Qrxlevmin                                                         | dBm  | -81    |
| UE_TXPWR_MAX_RACH                                                 | dBm  | 21     |
| PCCPCH RSCP                                                       | dBm  | ≤ -110 |
| NOTE: The cell is not suitable according to TS 25.304, 5.2.3.1.2. |      |        |

# 6.1.7 Reference Radio Conditions for signalling test cases (GSM)

The following transmission parameters shall be used for signalling test cases only unless otherwise stated in the description of the individual test case.

Table 6.1.10: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment

| Parameter                                                           | Unit | Cell 9                                                                     | Cell 10                 |
|---------------------------------------------------------------------|------|----------------------------------------------------------------------------|-------------------------|
| Cell type                                                           |      | Serving cell                                                               | Suitable neighbour cell |
| GSM RF Channel Number                                               |      | Channel 1                                                                  | Channel 2               |
| Base transceiver Station<br>Identity Code (BSIC)                    |      | BSIC1                                                                      | BSIC2                   |
| Qrxlevmin                                                           | dBm  | -81                                                                        | -81                     |
| MS_TXPWR_MAX_CCH                                                    | dBm  | According to maximum output power for the power class of the MS under test |                         |
| RF level                                                            | dBm  | -48                                                                        | -54                     |
| NOTE: Both cells fulfil TS 25.304, 5.2.6.1.4 and TS 25.133, 8.1.2.5 |      |                                                                            |                         |

Table 6.1.11: Default settings for a non-suitable cell

| Parameter                                                          | Unit | Level                                                                      |
|--------------------------------------------------------------------|------|----------------------------------------------------------------------------|
| Qrxlevmin                                                          | dBm  | -81                                                                        |
| MS_TXPWR_MAX_CCH                                                   | dBm  | According to maximum output power for the power class of the MS under test |
| RF level dBm -90                                                   |      |                                                                            |
| NOTE 1: The cell is not suitable according to TS 25.304, 5.2.6.1.4 |      |                                                                            |

# 6.2 Number of neighbour cells

The options for the number of neighbour cells (ie the total number of active cells in the simulated network) are given below. See clause 6.1 for cell configurations.

### 6.2.1 Basic Network

| Number of Cells | Use of Network Configuration                             |
|-----------------|----------------------------------------------------------|
| 1               | Basic UE registration; RRC Connection Establishment and  |
|                 | Release; operation of dedicated channels in non-handover |
|                 | modes; general RF and EMC testing                        |

# 6.2.2 Soft Handover Network (FDD)

| Number of Cells | Use of Network Configuration/Constraints                                                                                                                                                        |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Can be used in place of basic network, plus offering operation of dedicated channels in 2 way soft handover or in 2 way SSDT handover for RF or signalling tests; simple cell reselection tests |

### 6.2.3 Hard Handover Network

| Number of Cells | Use of Network Configuration                         |
|-----------------|------------------------------------------------------|
| 2               | Can be used in place of basic network, plus offering |
|                 | operation in 2 cell hard handover (inter-frequency)  |

## 6.2.4 'Roaming' Network

| Number of Cells | Use of Network Configuration                                                  |  |  |  |
|-----------------|-------------------------------------------------------------------------------|--|--|--|
| 7               | This configuration is intended to provide the capability for                  |  |  |  |
|                 | extensive cell selection and reselection testing, as defined                  |  |  |  |
|                 | under Idle Mode Testing.                                                      |  |  |  |
|                 | It is <ffs> if 7 is the correct number of cells and also <ffs> is</ffs></ffs> |  |  |  |
|                 | the number of separate RF channels to be supported by the                     |  |  |  |
|                 | 'Roaming Network'                                                             |  |  |  |

### 6.3 Cell/BS codes etc

See clause 6.1.

## 6.4 Routing/location area

See clause 6.1.

## 6.5 Network options settings

See clause 6.1.

#### 6.6 Power control mode

#### 6.6.1 Downlink Power Control

#### 6.6.1.1 Outer Loop Power Control

This is used to set the SIR requirements from the given BER/BLER requirements for the dedicated channel – the reference configuration is for the BER/BLER and SIR requirements to be fixed, ie Outer Loop Power Control is disabled.

#### 6.6.1.2 Inner Loop Power Control

The inner loop power control adjusts the power of the dedicated channel to meet the SIR requirements. The reference condition is for the Inner Loop Power Control to be disabled.

## 6.6.2 Uplink Power Control

#### 6.6.2.1 Outer Loop Power Control

This is used to set the SIR requirements from the given BER/BLER requirements for the dedicated channel – the reference configuration is for the BER/BLER and SIR requirements to be fixed, ie Outer Loop Power Control is disabled.

#### 6.6.2.2 Inner Loop Power Control (FDD)

The inner loop power control adjusts the power of the dedicated channel to meet the SIR requirements.

## 6.7 Tx Diversity modes

The reference settings for Tx Diversity Mode shall be

## 6.7.1 Non-Diverse Operation

DL Transmit Diversity shall be disabled on all cells in the simulated network

### 6.7.2 Diverse Operation

#### 6.7.2.1 Diverse Operation (FDD mode)

The diversity options applied to the DL channels shall be as below for all cells in the simulated network.

| Channel | Open loc | Closed loop |      |
|---------|----------|-------------|------|
|         | TSTD     | STTD        | Mode |
| P-CCPCH | _        | X           | _    |
| SCH     | X        | -           | _    |
| S-CCPCH | _        | X           | _    |
| DPCH    | _        | Χ           | -    |
| PICH    | _        | X           | _    |
| AICH    | _        | X           | _    |

#### 6.7.2.2 Diverse Operation (TDD mode)

The diversity options applied to the DL channels shall be as below for all cells in the simulated network

#### 6.7.2.2.1 3.84.Mcps option

Table 6.7.1: Application of Tx diversity schemes on downlink physical channel types in 3.84Mcps
TDD
"X" – can be applied, "-" – must not be applied

| Physical channel type | Open loop TxDiversity    |   | Closed loop TxDiversity |
|-----------------------|--------------------------|---|-------------------------|
|                       | TSTD SCTD <sup>(*)</sup> |   |                         |
| P-CCPCH               | -                        | X | _                       |
| S-CCPCH               |                          | Х |                         |
| SCH                   | Χ                        | _ | _                       |
| DPCH                  | ı                        | _ | X                       |
| PDSCH                 | 1                        | X | X                       |
| PICH                  | -                        | X | _                       |

(\*) Note: SCTD may only be applied to physical channels when they are allocated to beacon locations.

#### 6.7.2.2.2 1.28 Mcps option

Table 6.7.2: Application of Tx diversity schemes on downlink physical channel types in 1.28Mcps TDD

"X" - can be applied, "-" - must not be applied

| Physical channel type | Open loop TxDiversity |          | Closed loop TxDiversity |
|-----------------------|-----------------------|----------|-------------------------|
|                       | TSTD                  | SCTD (*) |                         |
| P-CCPCH               | Χ                     | Х        | _                       |
| S-CCPCH               | X                     | X        | _                       |
| DwPCH                 | Χ                     | _        | _                       |
| DPCH                  | Χ                     | _        | X                       |
| PDSCH                 | Χ                     | X        | X                       |
| PICH                  | Χ                     | X        | -                       |
|                       |                       |          |                         |

(\*) Note: SCTD may only be applied to physical channels when they are allocated to beacon locations.

## 6.8 Compressed Mode Parameters

In this clause, Parameters for reference compressed mode patterns are defined which are used in signalling test cases such as inter frequency FDD measurement, inter frequency TDD measurement and inter RAT measurement in specified [1]. These parameters are defined in [30] for measurement performance tests.

Depending on UE capability, there are four methods constructed of three types using of compressed mode such as UL only, DL only and both UL and DL, and using without application of compressed for the above measurement purposes. As test requirement is the same even if the test methods are different, ICS/IXIT statement is applied to the test cases so that the test procedure and specific message contents specified in [1] can be distinguished.

## 6.8.1 Single compressed mode pattern

Configuration parameters in single compressed mode pattern for one type of measurement objects are described in the following sub-clauses.

#### 6.8.1.1 Inter Frequency FDD measurement

The configuration parameters for an inter frequency FDD measurement is shown in table 6.8.1.

Table 6.8.1: Compressed mode parameters (Inter Frequency FDD measurement)

| Parameter                               | Value                 | Note                       |
|-----------------------------------------|-----------------------|----------------------------|
| TGSN (Transmission Gap Starting Slot    | 4                     |                            |
| Number)                                 |                       |                            |
| TGL1 (Transmission Gap Length 1)        | 7                     |                            |
| TGL2 (Transmission Gap Length 2)        | -                     | Only one gap in use.       |
| TGD (Transmission Gap Distance)         | undefined             |                            |
| TGPL1 (Transmission Gap Pattern         | 3                     |                            |
| Length)                                 |                       |                            |
| TGPL2 (Transmission Gap Pattern         | -                     | Only one pattern in use.   |
| Length)                                 |                       |                            |
| TGCFN (Transmission Gap Connection      | (Current CFN + (256 – |                            |
| Frame Number):                          | TTI/10msec))mod 256   |                            |
| UL/DL compressed mode selection         | DL, UL or DL & UL     | 3 configurations possible. |
|                                         | 05/0                  | DL, UL or both DL and UL   |
| UL compressed mode method               | SF/2                  |                            |
| DL compressed mode method               | SF/2                  |                            |
| Scrambling code change                  | No                    |                            |
| RPP (Recovery period power control      | 0                     |                            |
| mode)                                   |                       |                            |
| ITP (Initial transmission power control | 0                     |                            |
| mode)                                   |                       |                            |

#### 6.8.1.2 Inter Frequency TDD measurement

The configuration parameters for an inter frequency TDD measurement is shown in table 6.8.2.

Table 6.8.2: Compressed mode parameters (Inter Frequency TDD measurement)

| Parameter                               | Value                 | Note                       |
|-----------------------------------------|-----------------------|----------------------------|
| TGSN (Transmission Gap Starting Slot    | 10                    |                            |
| Number)                                 |                       |                            |
| TGL1 (Transmission Gap Length 1)        | 10                    |                            |
| TGL2 (Transmission Gap Length 2)        | -                     | Only one gap in use.       |
| TGD (Transmission Gap Distance)         | undefined             |                            |
| TGPL1 (Transmission Gap Pattern         | 11                    |                            |
| Length)                                 |                       |                            |
| TGPL2 (Transmission Gap Pattern         | -                     | Only one pattern in use.   |
| Length)                                 |                       |                            |
| TGCFN (Transmission Gap Connection      | (Current CFN + (256 – |                            |
| Frame Number):                          | TTI/10msec))mod 256   |                            |
| UL/DL compressed mode selection         | DL, UL or DL & UL     | 3 configurations possible. |
|                                         |                       | DL, UL or both DL and UL   |
| UL compressed mode method               | SF/2                  |                            |
| DL compressed mode method               | Puncturing            |                            |
| Scrambling code change                  | No                    |                            |
| RPP (Recovery period power control      | 0                     |                            |
| mode)                                   |                       |                            |
| ITP (Initial transmission power control | 0                     |                            |
| mode)                                   |                       |                            |

## 6.8.1.3 Inter RAT measurement (GSM - Carrier RSSI)

The configuration parameters for an Inter RAT measurement (GSM – Carrier RSSI) is shown in table 6.8.3.

Table 6.8.3: Compressed mode parameters (Inter RAT measurement – GSM Carrier RSSI)

| Parameter                               | Value                 | Note                       |
|-----------------------------------------|-----------------------|----------------------------|
| TGSN (Transmission Gap Starting Slot    | 4                     |                            |
| Number)                                 |                       |                            |
| TGL1 (Transmission Gap Length 1)        | 7                     |                            |
| TGL2 (Transmission Gap Length 2)        | -                     | Only one gap in use.       |
| TGD (Transmission Gap Distance)         | undefined             |                            |
| TGPL1 (Transmission Gap Pattern         | 12                    |                            |
| Length)                                 |                       |                            |
| TGPL2 (Transmission Gap Pattern         | -                     | Only one pattern in use.   |
| Length)                                 |                       |                            |
| TGCFN (Transmission Gap Connection      | (Current CFN + (256 – |                            |
| Frame Number):                          | TTI/10msec))mod 256   |                            |
| UL/DL compressed mode selection         | DL, UL or DL & UL     | 3 configurations possible. |
|                                         |                       | DL, UL or both DL and UL   |
| UL compressed mode method               | SF/2                  |                            |
| DL compressed mode method               | SF/2                  |                            |
| Scrambling code change                  | No                    |                            |
| RPP (Recovery period power control      | 0                     |                            |
| mode)                                   |                       |                            |
| ITP (Initial transmission power control | 0                     |                            |
| mode)                                   |                       |                            |

## 6.8.1.4 Inter RAT measurement (GSM – Initial BSIC Identification)

The configuration parameters for an inter frequency RAT measurement ( GSM – Initial BSIC Identification ) is shown in table 6.8.4.

Table 6.8.4: Compressed mode parameters (Inter RAT measurement – GSM Initial BSIC Identification)

| Parameter                               | Value                 | Note                       |
|-----------------------------------------|-----------------------|----------------------------|
| TGSN (Transmission Gap Starting Slot    | 4                     |                            |
| Number)                                 |                       |                            |
| TGL1 (Transmission Gap Length 1)        | 7                     |                            |
| TGL2 (Transmission Gap Length 2)        | -                     | Only one gap in use.       |
| TGD (Transmission Gap Distance)         | undefined             |                            |
| TGPL1 (Transmission Gap Pattern         | 8                     |                            |
| Length)                                 |                       |                            |
| TGPL2 (Transmission Gap Pattern         | -                     | Only one pattern in use.   |
| Length)                                 |                       |                            |
| TGCFN (Transmission Gap Connection      | (Current CFN + (256 – |                            |
| Frame Number):                          | TTI/10msec))mod 256   |                            |
| UL/DL compressed mode selection         | DL, UL or DL & UL     | 3 configurations possible. |
|                                         |                       | DL, UL or both DL and UL   |
| UL compressed mode method               | SF/2                  |                            |
| DL compressed mode method               | SF/2                  |                            |
| Scrambling code change                  | No                    |                            |
| RPP (Recovery period power control      | 0                     |                            |
| mode)                                   |                       |                            |
| ITP (Initial transmission power control | 0                     |                            |
| mode)                                   |                       |                            |

### 6.8.1.5 Inter RAT measurement (GSM – BSIC re-confirmation)

The configuration parameters for an inter RAT measurement (GSM – BSIC re-confirmation) is shown in table 6.8.5.

Table 6.8.5: Compressed mode parameters (Inter RAT measurement – GSM BSIC re-confirmation)

| Parameter                               | Value                 | Note                       |
|-----------------------------------------|-----------------------|----------------------------|
| TGSN (Transmission Gap Starting Slot    | 4                     |                            |
| Number)                                 |                       |                            |
| TGL1 (Transmission Gap Length 1)        | 7                     |                            |
| TGL2 (Transmission Gap Length 2)        | -                     | Only one gap in use.       |
| TGD (Transmission Gap Distance)         | undefined             |                            |
| TGPL1 (Transmission Gap Pattern         | 8                     |                            |
| Length)                                 |                       |                            |
| TGPL2 (Transmission Gap Pattern         | -                     | Only one pattern in use.   |
| Length)                                 |                       |                            |
| TGCFN (Transmission Gap Connection      | (Current CFN + (256 – |                            |
| Frame Number):                          | TTI/10msec))mod 256   |                            |
| UL/DL compressed mode selection         | DL, UL or DL & UL     | 3 configurations possible. |
|                                         |                       | DL, UL or both DL and UL   |
| UL compressed mode method               | SF/2                  |                            |
| DL compressed mode method               | SF/2                  |                            |
| Scrambling code change                  | No                    |                            |
| RPP (Recovery period power control      | 0                     |                            |
| mode)                                   |                       |                            |
| ITP (Initial transmission power control | 0                     |                            |
| mode)                                   |                       |                            |

## 6.8.2 Multiple compressed mode patterns

Configuration parameters in multiple compressed mode patterns for several types of measurement objects are described in the following sub-clauses.

#### 6.8.2.1 Inter RAT measurement GSM

The configuration parameters for an inter RAT measurement (GSM – Carrier RSSI, Initial BSIC Identification and BSIC Re-confirmation) is shown in table 6.8.6.

Table 6.8.6: Compressed mode parameters (Inter RAT measurement – GSM Carrier RSSI & Initial BSIC identification & BSIC re-confirmation)

| Parameter                                         | GSM Carrier<br>RSSI                                 | GSM Initial<br>BSIC<br>identification               | GSM BSIC re-<br>confirmation                        | Note                                                         |
|---------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|
| TGSN (Transmission Gap Starting Slot Number)      | 4                                                   | 4                                                   | 4                                                   |                                                              |
| TGL1 (Transmission Gap Length 1)                  | 7                                                   | 7                                                   | 7                                                   |                                                              |
| TGL2 (Transmission Gap Length 2)                  | -                                                   | •                                                   | -                                                   | Only one gap in use.                                         |
| TGD (Transmission Gap Distance)                   | undefined                                           | undefined                                           | undefined                                           |                                                              |
| TGPL1 (Transmission Gap Pattern Length)           | 12                                                  | 8                                                   | 8                                                   |                                                              |
| TGPL2 (Transmission Gap Pattern Length)           | -                                                   | •                                                   | -                                                   | Only one pattern in use.                                     |
| TGCFN (Transmission Gap Connection Frame Number): | (Current CFN<br>+ (252 –<br>TTI/10msec))<br>mod 256 | (Current CFN<br>+ (254 –<br>TTI/10msec))<br>mod 256 | (Current CFN<br>+ (250 –<br>TTI/10msec))<br>mod 256 | Defined by higher layers                                     |
| UL/DL compressed mode selection                   | DL, UL or DL<br>& UL                                | DL, UL or DL<br>& UL                                | DL, UL or DL<br>& UL                                | 3 configurations<br>possible. DL, UL<br>or both DL and<br>UL |
| UL compressed mode method                         | SF/2                                                | SF/2                                                | SF/2                                                |                                                              |
| DL compressed mode method                         | SF/2                                                | SF/2                                                | SF/2                                                |                                                              |
| Scrambling code change                            | No                                                  | No                                                  | No                                                  |                                                              |
| RPP (Recovery period power control mode)          | 0                                                   | 0                                                   | 0                                                   |                                                              |
| ITP (Initial transmission power control mode)     | 0                                                   | 0                                                   | 0                                                   |                                                              |

| 6.8.2.2<br>FFS | Inter Frequency FDD measurement & Inter RAT measurement GSM                                   |
|----------------|-----------------------------------------------------------------------------------------------|
| 6.8.2.3<br>FFS | Inter Frequency FDD measurement & Inter Frequency TDD measurement                             |
| 6.8.2.4<br>FFS | Inter Frequency TDD measurement & Inter RAT measurement GSM                                   |
| 6.8.2.5        | Inter Frequency FDD measurement & Inter Frequency TDD measurement & Inter RAT measurement GSM |
| FFS            |                                                                                               |

## 6.9 BCCH parameters

See clause 6.1.

# 6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

The reference radio bearer configurations are typical configurations of the radio interface. This sub-set of the mandatory set of radio bearer configurations supported by the UE is intended to be used as test configurations for testing of the UE. The purpose of the reference radio bearer configurations is to ensure interoperability of UE's in different regions and networks.

The reference radio bearer configurations are used in the radio bearer interoperability test cases, clause 14 of TS 34.123-1 [1]. The reference radio bearer configurations are also intended to be the first choice for other test cases where a radio bearer configuration is needed. For test cases requiring alternative configurations not provided by the reference radio bearer configurations then these specific radio bearer configurations are either specified in the actual test case itself; or in case the configurations are used by more than one test case then these common radio bearer configurations are specified in clause 6.11 of the present document.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

#### 6.10.1 QoS Architecture and RAB attributes

From a user point-of-view services are considered end-to-end, this means from a Terminal Equipment (TE) to another TE. An End-to-End Service may have a certain Quality of Service (QoS) which is provided for the user through the different networks. In UMTS, it is the UMTS Bearer Service that provides the requested QoS through the use of different QoS classes as defined in TS 23.107.

The UMTS Bearer Service consists of two parts, the Radio Access Bearer Service, RAB, and the Core Network Bearer Service. The Radio Access Bearer Service is realised by a Radio Bearer Service and an Iu-Bearer Service. The relationship between the services is illustrated in figure 6.10.1.1.

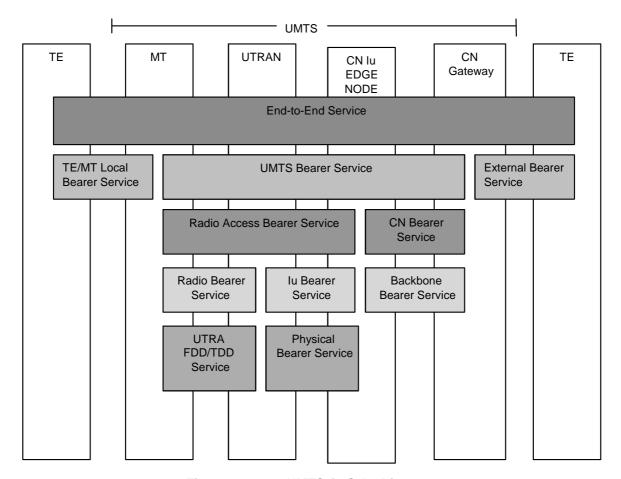


Figure 6.10.1.1: UMTS QoS Architecture

The Radio Access Bearer Service is characterised by a number of attributes such as Traffic class, Maximum bit rate, Guaranteed bit rate, SDU error ratio, Residual BER, Transfer Delay etc. As a first approach the four following attributes have been considered to come up with the parameter settings in clause 6.10.2.4 for FDD mode and 6.10.3.4 for TDD mode:

- Traffic class:
- SSD:
- Maximum bit rate;
- Residual BER.

The Traffic classes are explained in table 6.10.1.1. The Maximum bit rate has been considered at RLC layer and Physical Layer for the acknowledged and unacknowledged modes respectively. The Residual BER is understood as BER at RLC layer and Transport BLER for the acknowledged and unacknowledged modes respectively.

NOTE: The maximum bit rate in 6.10.2.4 for FDD mode and 6.10.3.4 for TDD mode is one of the RAB attribute as described above. For Interactive/Background PS RABs, however, the maximum bit rate of Radio Bearer can be lower than the maximum bit rate of RAB attributes due to radio resource management. Bit rates of Interactive/Background PS RABs described in 6.10.2.4 for FDD mode and 6.10.3.4 for TDD mode may represent the maximum bit rate of Radio Bearer taking account into this management.

Traffic class **Conversational class** Streaming class Interactive class **Background** Background best conversational RT streaming RT Interactive best effort effort Fundamental Preserve time relation Preserve time Request response Destination is not characteristics (variation) between relation (variation) expecting the pattern information entities of between information data within a Preserve payload the stream entities of the stream certain time content (i.e. some but Conversational pattern Preserve constant delay) (stringent and low payload content delay) Example of the speech, video, ... facsimile (NT) Web browsing background application download of streaming audio and emails video

Table 6.10.1.1: Traffic classes

## 6.10.2 RAB and signalling RB for FDD

#### 6.10.2.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

Table 6.10.2.1.1: Prioritised RABs.

| Conversational   Speech   UL:12.2 DL:12.2   CS   R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | #  | Traffic class [15]        | SSD [15]   | Max. rate, kbps   | CS/PS | Version |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|------------|-------------------|-------|---------|
| A-75) DL.(1/2.2   7.95 5.9 4.75)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1  | Conversational            | Speech     | UL:12.2 DL:12.2   | CS    | R99     |
| Conversational   Speech   UL:10.2 DL:10.2   CS   R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1a | Conversational            | Speech     | UL:(12.2 7.95 5.9 | CS    | R99     |
| Conversational   Speech   UL:10.2 DL:10.2   CS   R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                           |            |                   |       |         |
| Conversational   Speech   UL:(10.2, 6.7, 5.9, 4.75)   CS   R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                           |            |                   |       |         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2  |                           |            |                   |       | R99     |
| Speech                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2a | Conversational            | Speech     |                   | CS    | R99     |
| Conversational   Speech   UL:7.95 DL:7.95   CS   R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                           |            |                   |       |         |
| Conversational   Speech   UL:7.4 DL:7.4   CS   R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           |            |                   |       |         |
| Aaa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                           |            |                   |       |         |
| Sepech                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                           |            |                   |       |         |
| 5         Conversational         Speech         UL:6.7 DL:6.7         CS         R99           6         Conversational         Speech         UL:5.9 DL:5.9         CS         R99           7         Conversational         Speech         UL:5.15 DL:5.15         CS         R99           8         Conversational         Unknown         UL:4.75 DL:4.75         CS         R99           9         Conversational         Unknown         UL:28.8 DL:28.8         CS         R99           10         Conversational         Unknown         UL:32 DL:32         CS         R99           11         Conversational         Unknown         UL:32 DL:32         CS         R99           11a         Conversational         Unknown         UL:14.4 DL:14.4         CS         R99           12         Streaming         Unknown         UL:14.4 DL:14.4         CS         R99           13         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           14         Streaming         Unknown         UL:14.4 DL:14.4         CS         R99           15         Void         Void         Void         PS         R99           15a         Streaming                                                                                                                                   | 4a | Conversational            | Speech     |                   | CS    | R99     |
| 6         Conversational         Speech         UL:6.7 DL:6.7         CS         R99           6         Conversational         Speech         UL:5.9 DL:5.9         CS         R99           7         Conversational         Speech         UL:5.15 DL:5.15         CS         R99           8         Conversational         Speech         UL:4.75 DL:4.75         CS         R99           9         Conversational         Unknown         UL:28.8 DL:28.8         CS         R99           10         Conversational         Unknown         UL:32 DL:32         CS         R99           11         Conversational         Unknown         UL:32 DL:32         CS         R99           11a         Conversational         Unknown         UL:32 DL:38         PS         R99           12         Streaming         Unknown         UL:32 DL:38         PS         R99           13         Streaming         Unknown         UL:57.6 DL:57.6         CS         R99           14         Streaming         Unknown         UL:16 DL:64         PS         R99           15         Void         Void         Void         Void         PS         R99           17         Void                                                                                                                                         |    |                           |            |                   |       |         |
| 6         Conversational         Speech         UL:5.9 DL:5.19         CS         R99           7         Conversational         Speech         UL:4.75 DL:5.15         CS         R99           8         Conversational         Speech         UL:4.75 DL:4.75         CS         R99           9         Conversational         Unknown         UL:28.8 DL:28.8         CS         R99           10         Conversational         Unknown         UL:32 DL:32         CS         R99           11         Conversational         Unknown         UL:32 DL:38         PS         R99           11a         Conversational         Unknown         UL:34 DL:14.4         CS         R99           12         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           13         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           14         Streaming         Unknown         UL:16.DL:64         PS         R99           15         Void         Void         Void         PS         R99           16         Void         Void         PS         R99           20         Interactive or Background         N/A         UL:32                                                                                                                                 | -  | Convergational            | Chaoab     |                   | CC    | DOO     |
| 7         Conversational         Speech         UL:5.15 DL:5.15         CS         R99           8         Conversational         Speech         UL:4.75 DL:4.75         CS         R99           9         Conversational         Unknown         UL:28 BDL:28.8         CS         R99           10         Conversational         Unknown         UL:32 DL:32         CS         R99           11         Conversational         Unknown         UL:32 DL:32         CS         R99           12         Streaming         Unknown         UL:14.4 DL:14.4         CS         R99           13         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           14         Streaming         Unknown         UL:57.6 DL:57.6         CS         R99           15         Void         Void         CS         R99           16         Void         Void         PS         R99           17         Void         TO:32 DL:38         PS         R99           19         Void         TO:32 DL:38         PS         R99           20a         Interactive or Background         N/A         UL:32 DL:38         PS         R99           21                                                                                                                                                        |    |                           |            |                   |       |         |
| 8         Conversational         Speech         UL:4.75 DL:4.75         CS         R99           9         Conversational         Unknown         UL:28.8 DL:28.8         CS         R99           10         Conversational         Unknown         UL:32 DL:32         CS         R99           11         Conversational         Unknown         UL:32 DL:32         CS         R99           11a         Conversational         Unknown         UL:32 DL:32         CS         R99           11a         Conversational         Unknown         UL:32 DL:8         PS         R99           12         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           13         Streaming         Unknown         UL:27.6 DL:57.6         CS         R99           14         Streaming         Unknown         UL:16 DL:64         PS         R99           15         Void         Void         Void         Void         PS         R99           16         Void         Void         Void         PS         R99           20         Interactive or Background         N/A         UL:32 DL:8         PS         R99           20         Interactive or Backgroun                                                                                                                                 |    |                           |            |                   |       |         |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                           |            |                   |       |         |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           |            |                   |       |         |
| 111         Conversational         Unknown         UL:32 DL:32         CS         R99           11a         Conversational         Unknown         UL:8 DL:8         PS         R99           12         Streaming         Unknown         UL:14.4 DL:14.4         CS         R99           13         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           14         Streaming         Unknown         UL:57.6 DL:57.6         CS         R99           15         Void         Void         Void         PS         R99           16         Void         Void         Void         PS         R99           18         Void         Void         Void         PS         R99           20         Interactive or Background         N/A         UL:32 DL:8         PS         R99           20a         Interactive or Background         N/A         UL:32 DL:38         PS         R99           20b         Interactive or Background         N/A         UL:32 DL:38         PS         R99           21         Void         Void         PS         R99           22         Interactive or Background         N/A         UL:32 DL:34         P                                                                                                                                          |    |                           |            |                   |       |         |
| 11a         Conversational         Unknown         UL:8 DL:8         PS         R99           12         Streaming         Unknown         UL:14.4 DL:14.4         CS         R99           13         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           14         Streaming         Unknown         UL:57.6 DL:57.6         CS         R99           15         Void         UL:16 DL:64         PS         R99           15         Streaming         Unknown         UL:16 DL:64         PS         R99           16         Void         Ulxidia         Void         PS         R99                                                                                                                         |    |                           |            |                   |       |         |
| 12         Streaming         Unknown         UL:14.4 DL:14.4         CS         R99           13         Streaming         Unknown         UL:28.8 DL:28.8         CS         R99           14         Streaming         Unknown         UL:57.6 DL:57.6         CS         R99           15         Void         Void         PS         R99           16         Void         Void         PS         R99           17         Void         PS         R99           19         Void         PS         R99           20         Interactive or Background         N/A         UL:32 DL:8         PS         R99           20a Interactive or Background         N/A         UL:32 DL:8         PS         R99           20b Interactive or Background         N/A         UL:32 DL:6         PS         R99           20c Interactive or Background         N/A         UL:32 DL:64         PS         R99           21         Void         PS         R99           22         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:328         PS         R99 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>                                                                               |    |                           |            |                   |       |         |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           |            |                   |       |         |
| 14         Streaming         Unknown         UL:57.6 DL:57.6         CS         R99           15         Void         Today         R99         R99           15a         Streaming         Unknown         UL:16 DL:64         PS         R99           16         Void         Today         R99         R99         R99         R99           17         Void         Void         Today         R99                                                                                                                                                   |    | )                         |            |                   |       |         |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           |            |                   |       |         |
| 15a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                           | OTINTOWIT  | OL.37.0 DL.37.0   | - 03  | N99     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           | Linknown   | III :16 DI :64    | DS    | Poo     |
| 17         Void         Void           19         Void         Void           20         Interactive or Background         N/A         UL:32 DL:8         PS         R99           20a         Interactive or Background         N/A         UL:38 DL:8         PS         R99           20b         Interactive or Background         N/A         UL:16 DL:16         PS         R99           20c         Interactive or Background         N/A         UL:32 DL:32         PS         R99           21         Void         Void         Void         PS         R99           22         Interactive or Background         N/A         UL:64 DL:64         PS         R99           23         Interactive or Background         N/A         UL:64 DL:128         PS         R99           24         Interactive or Background         N/A         UL:64 DL:328         PS         R99           25         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:384 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99                                                                                                                |    |                           | OTIKTIOWIT | OL. 10 DL.04      | 10    | 1133    |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           |            |                   |       |         |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                           |            |                   |       |         |
| 20         Interactive or Background         N/A         UL:32 DL:8         PS         R99           20a         Interactive or Background         N/A         UL:8 DL:8         PS         R99           20b         Interactive or Background         N/A         UL:36 DL:16         PS         R99           20c         Interactive or Background         N/A         UL:32 DL:32         PS         R99           21         Void         Void         Void         PS         R99           21         Void         Void         PS         R99           22         Interactive or Background         N/A         UL:32 DL:64         PS         R99           23         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:64 DL:384         PS         R99           26         Interactive or Background         N/A         UL:384 DL:384         PS         R99           27         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           29         <                                                                                                           |    |                           |            |                   |       |         |
| 20a         Interactive or Background         N/A         UL:8 DL:8         PS         R99           20b         Interactive or Background         N/A         UL:16 DL:16         PS         R99           20c         Interactive or Background         N/A         UL:32 DL:32         PS         R99           21         Void         Void         Void         R99           22         Interactive or Background         N/A         UL:32 DL:64         PS         R99           23         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:64 DL:384         PS         R99           26         Interactive or Background         N/A         UL:38 DL:384         PS         R99           27         Interactive or Background         N/A         UL:384 DL:384         PS         R99           28         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS                                                                                                            |    |                           | N/A        | UL:32 DL:8        | PS    | R99     |
| 20b         Interactive or Background         N/A         UL:16 DL:16         PS         R99           20c         Interactive or Background         N/A         UL:32 DL:32         PS         R99           21         Void         Void         R99           22         Interactive or Background         N/A         UL:32 DL:64         PS         R99           23         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:64 DL:328         PS         R99           26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:384 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           30         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           31         Void         Void         PS         R99           32         Interactiv                                                                                                                     |    |                           |            |                   |       |         |
| 20c         Interactive or Background         N/A         UL:32 DL:32         PS         R99           21         Void         V/A         UL:32 DL:32 PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:64 DL:384         PS         R99           26         Interactive or Background         N/A         UL:38 DL:384         PS         R99           27         Interactive or Background         N/A         UL:384 DL:384         PS         R99           28         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           29         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         Void         PS         R99           32         Interactive or Background         N/A                                                                                                                                                                                                             |    |                           |            |                   |       |         |
| 21         Void         Literactive or Background         N/A         UL:32 DL:64         PS         R99           23         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:128 DL:128         PS         R99           26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS                                                                                              |    |                           |            |                   |       |         |
| 22         Interactive or Background         N/A         UL:32 DL:64         PS         R99           23         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:128 DL:128         PS         R99           26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99                                                                                               |    |                           |            |                   |       |         |
| 23         Interactive or Background         N/A         UL:64 DL:64         PS         R99           24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:128 DL:128         PS         R99           26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           33         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           34         Interactive or Background         N/A         UL:64 DL:144         PS         R99                                                                                              | 22 | Interactive or Background | N/A        | UL:32 DL:64       | PS    | R99     |
| 24         Interactive or Background         N/A         UL:64 DL:128         PS         R99           25         Interactive or Background         N/A         UL:128 DL:128         PS         R99           26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           33         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           34         Interactive or Background         N/A         UL:64 DL:144         PS         R99           35         Interactive or Background         N/A         UL:144 DL:144         PS         R99                                                                                            |    |                           |            |                   |       |         |
| 26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         VUL:64 DL:256         PS         R99           32         Interactive or Background         N/A         UL:0 DL:32         PS         R99           33         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           34         Interactive or Background         N/A         UL:64 DL:144         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         N/A         UL:42.8 DL:42.8         PS                                                                                         | 24 | Interactive or Background | N/A        | UL:64 DL:128      | PS    | R99     |
| 26         Interactive or Background         N/A         UL:64 DL:384         PS         R99           27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           33         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         N/A         UL:(12.65 8.85 6.6)         CS         REL-5                                                                                            |    |                           |            |                   |       |         |
| 27         Interactive or Background         N/A         UL:128 DL:384         PS         R99           28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         VUL:04 DL:256         PS         R99           32         Interactive or Background         N/A         UL:04 DL:256         PS         R99           33         Interactive or Background         N/A         UL:32 DL:0         PS         R99           34         Interactive or Background         N/A         UL:32 DL:0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS <td< td=""><td></td><td></td><td>N/A</td><td>UL:64 DL:384</td><td>PS</td><td>R99</td></td<> |    |                           | N/A        | UL:64 DL:384      | PS    | R99     |
| 28         Interactive or Background         N/A         UL:384 DL:384         PS         R99           29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           33         Interactive or Background         N/A         UL:0 DL:32         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5                                                                                                                                                                                               |    |                           |            |                   | PS    |         |
| 29         Interactive or Background         N/A         UL:64 DL:2048         PS         R99           30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         Void         Void         Void         Void         Void         PS         R99           32         Interactive or Background         N/A         UL:64 DL:256         PS         R99         R99           33         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           34         Interactive or Background         N/A         UL:64 DL:144         PS         R99           35         Interactive or Background         N/A         UL:144 DL:144         PS         R99           36         Interactive or Background         N/A         UL:142 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5                                                                                                                                                                                                                                                 |    |                           | N/A        |                   | PS    | R99     |
| 30         Interactive or Background         N/A         UL:128 DL:2048         PS         R99           31         Void         32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           33         Interactive or Background         N/A         UL:0 DL:32         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                |    | Interactive or Background | N/A        |                   | PS    | R99     |
| 32         Interactive or Background         N/A         UL:64 DL:256         PS         R99           33         Interactive or Background         N/A         UL:0 DL:32         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30 |                           | N/A        | UL:128 DL:2048    | PS    | R99     |
| 33         Interactive or Background         N/A         UL:0 DL:32         PS         R99           34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                           |            |                   |       |         |
| 34         Interactive or Background         N/A         UL:32 DL: 0         PS         R99           35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 32 |                           |            |                   |       | R99     |
| 35         Interactive or Background         N/A         UL:64 DL:144         PS         R99           36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                           |            |                   |       | R99     |
| 36         Interactive or Background         N/A         UL:144 DL:144         PS         R99           37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                           |            |                   |       |         |
| 37         Conversational         N/A         UL:42.8 DL:42.8         PS         REL-5           38         Conversational         Speech         UL:(12.65 8.85 6.6)         CS         REL-5           DL:(12.65 8.85 6.6)         DL:(12.65 8.85 6.6)         CS         REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                           |            |                   |       |         |
| 38 Conversational Speech UL:(12.65 8.85 6.6) CS REL-5 DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                           |            |                   |       |         |
| DL:(12.65 8.85 6.6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                           |            |                   |       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 38 | Conversational            | Speech     |                   | CS    | REL-5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 39 | Interactive or Background | N/A        | UL:64 DL:768      | PS    | REL-5   |

Table 6.10.2.1.2: Signalling RBs

| # | Maximum rate, kbps  | Logical channel | PhyCh onto which SRBs | Version |
|---|---------------------|-----------------|-----------------------|---------|
|   |                     |                 | are mapped            |         |
| 1 | UL:1.7 DL:1.7       | DCCH            | DPCH                  | R99     |
| 2 | UL:3.4 DL:3.4       | DCCH            | DPCH                  | R99     |
| 3 | UL:13.6 DL:13.6     | DCCH            | DPCH                  | R99     |
| 4 | DL:27.2 (alt. 40.8) | DCCH            | SCCPCH                | R99     |
| 5 | UL:16.6             | CCCH            | PRACH                 | R99     |
| 6 | DL:30.4 (alt. 45.6) | CCCH            | SCCPCH                | R99     |
| 7 | DL:33.2 (alt. 49.8) | BCCH:           | SCCPCH                | R99     |
| 8 | DL:24 (alt. 6.4)    | PCCH            | SCCPCH                | R99     |
| 9 | DL: 0.15            | DCCH            | DPCH                  | REL-5   |

#### 6.10.2.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.

- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Void
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.

- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void
- 37) Void
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38g) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB  $\,$
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - $+\ Interactive\ or\ background\ /\ UL:64\ DL:256\ kbps\ /\ PS\ RAB$
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - $+\ Interactive\ or\ background\ /\ UL:128\ DL:2048\ kbps\ /\ PS\ RAB$
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void.
- 48) Void.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or Background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or Background / UL:16 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - $+\ Interactive\ or\ background\ /\ UL:64\ DL:128\ kbps\ /\ PS\ RAB$
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:128 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void
- 55) Void.

- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 59) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).
- 60) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 62) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-5).
- 63) Interactive or background / UL:64 DL:768 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH (REL-5).

#### Combinations on DSCH and DPCH

- 1) Void
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 4) Void
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
   + Interactive or background / UL:64 DL:2048 kbps / PS RAB
   + UL:3.4 DL:3.4 kbps SRBs for DCCH.

#### Combinations on SCCPCH

- 1) Stand-alone 24 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH

- + SRBs for DCCH
- + SRB for BCCH.
- 4) RB for CTCH
  - + SRB for CCCH
  - +SRB for BCCH

#### Combinations on PRACH

- 1) Interactive or background / UL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

#### Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

#### 6.10.2.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.2.3.1.

Table 6.10.2.3.1: Example of linkage between RABs and services

|                              | F        | RAB                          |       | Residual                                                           | Services                              |
|------------------------------|----------|------------------------------|-------|--------------------------------------------------------------------|---------------------------------------|
| Traffic class<br>[15]        | SSD [15] | Max. rate, kbps              | CS/PS | BER [15]                                                           |                                       |
| Conversational               | Speech   | UL:4.75-12.2<br>DL:4.75-12.2 | CS    | 5x10 <sup>-4</sup> ,<br>1x10 <sup>-3</sup> ,<br>5x10 <sup>-3</sup> | AMR speech                            |
| Conversational               | Unknown  | UL:64 DL:64                  | CS    | 1x10 <sup>-4</sup> or<br>1x10 <sup>-6</sup>                        | UDI 1B, 64k 3G-324M [15]              |
| Conversational               | Unknown  | UL:32 DL:32                  | CS    | 1x10 <sup>-4</sup> or<br>1x10 <sup>-6</sup>                        | 32k 3G-324M [15]                      |
| Conversational               | Unknown  | UL:28.8 DL:28.8              | CS    | 1x10 <sup>-3</sup>                                                 | Transparent modem                     |
| Streaming                    | Unknown  | UL:14.4 DL:14.4              | CS    | 1x10 <sup>-3</sup>                                                 | FAX <sup>[6]</sup>                    |
| Streaming                    | Unknown  | UL:28.8 DL:28.8              | CS    | 1x10 <sup>-3</sup>                                                 | FAX [18]<br>PIAFS 32 kbps             |
| Streaming                    | Unknown  | UL:57.6 DL:57.6              | CS    | 1x10 <sup>-3</sup>                                                 | Modem [18], FTM [17]<br>PIAFS 64 kbps |
| Streaming                    | Unknown  | UL:64-128 or<br>DL:64-384    | CS    | 1x10 <sup>-3</sup> or<br>1x10 <sup>-4</sup>                        | Streaming video, uni-directional      |
| Interactive or<br>Background | N/A      | UL:32-384<br>DL:8-2048       | PS    | 1x10 <sup>-3</sup> or<br>1x10 <sup>-4</sup>                        | Packet                                |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH.

NOTE 3: UDI *n*B can be provided via *n* RABs of conversational 64 kbps.

## 6.10.2.4 Typical radio parameter sets

6.10.2.4.1 Combinations on DPCH

6.10.2.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.2.4.1.1.1 Uplink

6.10.2.4.1.1.1 Transport channel parameters

#### 6.10.2.4.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| Higher layer | RAB/signalling RE    | 3                                  | SRB#1                          | SRB#2  | SRB#3     | SRB#4    |  |  |
|--------------|----------------------|------------------------------------|--------------------------------|--------|-----------|----------|--|--|
|              | User of Radio Bearer |                                    | RRC                            | RRC    | NAS_DT    | NAS_DT   |  |  |
|              |                      |                                    |                                |        | High prio | Low prio |  |  |
| RLC          | Logical channel ty   | /pe                                | DCCH                           | DCCH   | DCCH      | DCCH     |  |  |
|              | RLC mode             |                                    | UM                             | AM     | AM        | AM       |  |  |
|              | Payload sizes, bit   |                                    | 136                            | 128    | 128       | 128      |  |  |
|              | Max data rate, bp    | S                                  | 1700                           | 1600   | 1600      | 1600     |  |  |
|              | AMD/UMD PDU ł        | neader, bit                        | 8                              | 16     | 16        | 16       |  |  |
| MAC          | MAC header, bit      |                                    | 4                              | 4      | 4         | 4        |  |  |
|              | MAC multiplexing     |                                    | 4 logical channel multiplexing |        |           |          |  |  |
| Layer 1      | TrCH type            |                                    | DCH                            |        |           |          |  |  |
|              | TB sizes, bit        |                                    | 148 (alt 0, 148)               |        |           |          |  |  |
|              | TFS                  | TF0, bits                          | 0x148 (alt 1x0)                |        |           |          |  |  |
|              |                      | TF1, bits                          |                                | 1x148  |           |          |  |  |
|              | TTI, ms              | TTI, ms                            |                                | 80     |           |          |  |  |
|              | Coding type          | Coding type                        |                                | CC 1/3 |           |          |  |  |
|              | CRC, bit             |                                    |                                | 16     |           |          |  |  |
|              | Max number of bi     | Max number of bits/TTI before rate |                                | 516    |           |          |  |  |
|              | matching             | matching                           |                                |        |           |          |  |  |
|              | Uplink: Max numb     |                                    | 65                             |        |           |          |  |  |
|              | frame before rate    | matching                           |                                |        |           |          |  |  |
| 1            | RM attribute         |                                    | 155-185                        |        |           |          |  |  |

#### 6.10.2.4.1.1.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for DCCH = TF0, TF1 |

#### 6.10.2.4.1.1.1.2 Physical channel parameters

| DPCH Uplink |                                           |     |
|-------------|-------------------------------------------|-----|
|             |                                           |     |
|             | Min spreading factor                      | 256 |
|             | Max number of DPDCH data bits/radio frame | 150 |
|             | Puncturing Limit                          | 1   |

#### 6.10.2.4.1.1.2 Downlink

#### 6.10.2.4.1.1.2.1 Transport channel parameters

## 6.10.2.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| Higher layer  | RAB/signalling RB       |                         | SRB#1                          | SRB#2                   | SRB#3     | SRB#4    |  |
|---------------|-------------------------|-------------------------|--------------------------------|-------------------------|-----------|----------|--|
|               | User of Radio Bear      | User of Radio Bearer    |                                | RRC                     | NAS_DT    | NAS_DT   |  |
|               |                         |                         |                                |                         | High prio | Low prio |  |
| RLC           | Logical channel typ     | е                       | DCCH                           | DCCH                    | DCCH      | DCCH     |  |
|               | RLC mode                |                         | UM                             | AM                      | AM        | AM       |  |
|               | Payload sizes, bit      |                         | 136                            | 128                     | 128       | 128      |  |
|               | Max data rate, bps      |                         | 1700                           | 1600                    | 1600      | 1600     |  |
|               | AMD/UMD PDU he          | AMD/UMD PDU header, bit |                                | 16                      | 16        | 16       |  |
| MAC           | MAC header, bit         | MAC header, bit         |                                | 4                       | 4         | 4        |  |
|               | MAC multiplexing        |                         | 4 logical channel multiplexing |                         |           |          |  |
| Layer 1       | TrCH type               |                         | DCH                            |                         |           |          |  |
|               | TB sizes, bit           | TB sizes, bit           |                                | 148 (alt 0, 148) (note) |           |          |  |
|               | TFS                     | TFS TF0, bits           |                                | 0 x148 (alt 1x0) (note) |           |          |  |
|               |                         | TF1, bits               | 1x148                          |                         |           |          |  |
|               | TTI, ms                 |                         | 80                             |                         |           |          |  |
|               | Coding type             |                         | CC 1/3                         |                         |           |          |  |
|               | CRC, bit                |                         | 16                             |                         |           |          |  |
|               | Max number of bits      | /TTI before rate        | 516                            |                         |           |          |  |
| matching      |                         |                         |                                |                         |           |          |  |
|               | RM attribute            |                         | 155-185                        |                         |           |          |  |
| NOTE: alterna | ative parameters enable | e the measurement "     | transport chan                 | nel BLER" in th         | ne UE.    |          |  |

#### 6.10.2.4.1.1.2.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for DCCH = TF0, TF1 |

#### 6.10.2.4.1.1.2.2 Physical channel parameters

| DPCH Downlink |                     |                           |                  |
|---------------|---------------------|---------------------------|------------------|
|               | DTX position        |                           | N/A (SingleTrCH) |
|               |                     |                           |                  |
|               | Minimum spreading f | actor                     | 512              |
|               | DPCCH               | Number of TFCI bits/slot  | 0                |
|               |                     | Number of TPC bits/slot   | 2                |
|               |                     | Number of Pilot bits/slot | 4                |
|               | DPDCH               | Number of data bits/slot  | 4                |
|               |                     | Number of data bits/frame | 60               |

6.10.2.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.2.1 Uplink

6.10.2.4.1.2.1.1 Transport channel parameters

#### 6.10.2.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

| Higher layer | RAB/signalling f | RB                   | SRB#1            | SRB#2                          | SRB#3     | SRB#4    |  |  |
|--------------|------------------|----------------------|------------------|--------------------------------|-----------|----------|--|--|
|              | User of Radio B  | earer                | RRC              | RRC                            | NAS_DT    | NAS_DT   |  |  |
|              |                  |                      |                  |                                | High prio | Low prio |  |  |
| RLC          | Logical channel  | type                 | DCCH             | DCCH                           | DCCH      | DCCH     |  |  |
|              | RLC mode         |                      | UM               | AM                             | AM        | AM       |  |  |
|              | Payload sizes, b | it                   | 136              | 128                            | 128       | 128      |  |  |
|              | Max data rate, b | ps                   | 3400             | 3200                           | 3200      | 3200     |  |  |
|              | AMD/UMD PDU      | header, bit          | 8                | 16                             | 16        | 16       |  |  |
| MAC          | MAC header, bi   | MAC header, bit      |                  | 4                              | 4         | 4        |  |  |
|              | MAC multiplexing | g                    |                  | 4 logical channel multiplexing |           |          |  |  |
| Layer 1      | TrCH type        | TrCH type            |                  | DCH                            |           |          |  |  |
|              | TB sizes, bit    |                      | 148 (alt 0, 148) |                                |           |          |  |  |
|              | TFS              | TFS TF0, bits        |                  | 0x148 (alt 1x0)                |           |          |  |  |
|              |                  | TF1, bits            |                  | 1x148                          |           |          |  |  |
|              | TTI, ms          | TTI, ms              |                  | 40                             |           |          |  |  |
|              | Coding type      |                      | CC 1/3           |                                |           |          |  |  |
|              | CRC, bit         | CRC, bit             |                  | 16                             |           |          |  |  |
|              | Max number of    | oits/TTI before rate | 516              |                                |           |          |  |  |
|              | matching         | matching             |                  |                                |           |          |  |  |
|              |                  | nber of bits/radio   |                  | 12                             | 29        |          |  |  |
|              | frame before rat | e matching           |                  |                                |           |          |  |  |
|              | RM attribute     |                      |                  | 155                            | -185      |          |  |  |

#### 6.10.2.4.1.2.1.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for DCCH = TF0, TF1 |

#### 6.10.2.4.1.2.1.2 Physical channel parameters

| DPCH Uplink | Min spreading factor                      | 256 |
|-------------|-------------------------------------------|-----|
|             | Max number of DPDCH data bits/radio frame | 150 |
|             | Puncturing Limit                          | 1   |

#### 6.10.2.4.1.2.2 Downlink

#### 6.10.2.4.1.2.2.1 Transport channel parameters

#### 6.10.2.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

| Higher layer  | RAB/signalling RB       |                         | SRB#1                          | SRB#2                   | SRB#3     | SRB#4    |  |  |
|---------------|-------------------------|-------------------------|--------------------------------|-------------------------|-----------|----------|--|--|
|               | User of Radio Bear      | User of Radio Bearer    |                                | RRC                     | NAS_DT    | NAS_DT   |  |  |
|               |                         |                         |                                |                         | High prio | Low prio |  |  |
| RLC           | Logical channel typ     | е                       | DCCH                           | DCCH                    | DCCH      | DCCH     |  |  |
|               | RLC mode                |                         | UM                             | AM                      | AM        | AM       |  |  |
|               | Payload sizes, bit      |                         | 136                            | 128                     | 128       | 128      |  |  |
|               | Max data rate, bps      |                         | 3400                           | 3200                    | 3200      | 3200     |  |  |
|               | AMD/UMD PDU he          | AMD/UMD PDU header, bit |                                | 16                      | 16        | 16       |  |  |
| MAC           | MAC header, bit         |                         | 4                              | 4                       | 4         | 4        |  |  |
|               | MAC multiplexing        |                         | 4 logical channel multiplexing |                         |           |          |  |  |
| Layer 1       | TrCH type               |                         | DCH                            |                         |           |          |  |  |
|               | TB sizes, bit           | TB sizes, bit           |                                | 148 (alt 0, 148) (note) |           |          |  |  |
|               | TFS                     | TFS TF0, bits           |                                | 0x148 (alt 1x0) (note)  |           |          |  |  |
|               |                         | TF1, bits               | 1x148                          |                         |           |          |  |  |
|               | TTI, ms                 |                         | 40                             |                         |           |          |  |  |
|               | Coding type             |                         |                                | CC                      | 1/3       |          |  |  |
|               | CRC, bit                |                         |                                | 16                      |           |          |  |  |
|               | Max number of bits      | /TTI before rate        | 516                            |                         |           |          |  |  |
|               | matching                | matching                |                                |                         |           |          |  |  |
|               | RM attribute            |                         |                                | 155-                    |           |          |  |  |
| NOTE: alterna | ative parameters enable | e the measurement "     | transport chan                 | nel BLER" in th         | ie UE.    |          |  |  |

#### 6.10.2.4.1.2.2.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for DCCH = TF0, TF1 |

#### 6.10.2.4.1.2.2.2 Physical channel parameters

| DPCH Downlink | DTX position             |                           | N/A (SingleTrCH) |
|---------------|--------------------------|---------------------------|------------------|
|               | Minimum spreading factor |                           | 256              |
|               | DPCCH                    | Number of TFCI bits/slot  | 0                |
|               |                          | Number of TPC bits/slot   | 2                |
|               |                          | Number of Pilot bits/slot | 4                |
|               | DPDCH                    | Number of data bits/slot  | 14               |
|               |                          | Number of data bits/frame | 210              |

6.10.2.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.10.2.4.1.3.1 Uplink

6.10.2.4.1.3.1.1 Transport channel parameters

#### 6.10.2.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB                        |                                    | SRB#1                          | SRB#2            | SRB#3     | SRB#4    |  |
|--------------|------------------------------------------|------------------------------------|--------------------------------|------------------|-----------|----------|--|
|              | User of Radio Bea                        | User of Radio Bearer               |                                | RRC              | NAS_DT    | NAS_DT   |  |
|              |                                          |                                    |                                |                  | High prio | Low prio |  |
| RLC          | Logical channel typ                      | е                                  | DCCH                           | DCCH             | DCCH      | DCCH     |  |
|              | RLC mode                                 |                                    | UM                             | AM               | AM        | AM       |  |
|              | Payload sizes, bit                       |                                    | 136                            | 128              | 128       | 128      |  |
|              | Max data rate, bps                       |                                    | 13600                          | 12800            | 12800     | 12800    |  |
|              | AMD/UMD PDU he                           | AMD/UMD PDU header, bit            |                                | 16               | 16        | 16       |  |
| MAC          | MAC header, bit                          | MAC header, bit                    |                                | 4                | 4         | 4        |  |
|              | MAC multiplexing                         |                                    | 4 logical channel multiplexing |                  |           |          |  |
| Layer 1      | TrCH type                                | TrCH type                          |                                | DCH              |           |          |  |
|              | TB sizes, bit                            | TB sizes, bit                      |                                | 148 (alt 0, 148) |           |          |  |
|              | TFS                                      | TFS TF0, bits                      |                                | 0x148 (alt 1x0)  |           |          |  |
|              |                                          | TF1, bits                          | 1x148                          |                  |           |          |  |
|              | TTI, ms                                  |                                    | 10                             |                  |           |          |  |
|              | Coding type                              | Coding type                        |                                | CC 1/3           |           |          |  |
|              | CRC, bit                                 |                                    |                                | 16               |           |          |  |
|              | Max number of bits                       | Max number of bits/TTI before rate |                                | 516              |           |          |  |
|              | matching                                 |                                    |                                |                  |           |          |  |
|              | Uplink: Max numbe<br>frame before rate r |                                    |                                | 5                | 16        |          |  |

#### 6.10.2.4.1.3.1.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for DCCH = TF0, TF1 |

#### 6.10.2.4.1.3.1.2 Physical channel parameters

| DPCH Uplink | Min spreading factor                      | 64  |
|-------------|-------------------------------------------|-----|
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1   |

#### 6.10.2.4.1.3.2 Downlink

#### 6.10.2.4.1.3.2.1 Transport channel parameters

## 6.10.2.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

| Higher layer  | RAB/signalling RB               |                                             | SRB#1                  | SRB#2                          | SRB#3                   | SRB#4    |  |  |
|---------------|---------------------------------|---------------------------------------------|------------------------|--------------------------------|-------------------------|----------|--|--|
|               | User of Radio Beare             | User of Radio Bearer                        |                        | RRC                            | NAS_DT                  | NAS_DT   |  |  |
|               |                                 |                                             |                        |                                | High prio               | Low prio |  |  |
| RLC           | Logical channel type            | )                                           | DCCH                   | DCCH                           | DCCH                    | DCCH     |  |  |
|               | RLC mode                        |                                             | UM                     | AM                             | AM                      | AM       |  |  |
|               | Payload sizes, bit              |                                             | 136                    | 128                            | 128                     | 128      |  |  |
|               | Max data rate, bps              |                                             | 13600                  | 12800                          | 12800                   | 12800    |  |  |
|               | AMD/UMD PDU hea                 | ader, bit                                   | 8                      | 16                             | 16                      | 16       |  |  |
| MAC           | MAC header, bit                 |                                             | 4                      | 4                              | 4                       | 4        |  |  |
|               | MAC multiplexing                | MAC multiplexing                            |                        | 4 logical channel multiplexing |                         |          |  |  |
| Layer 1       | TrCH type                       | TrCH type                                   |                        | DCH                            |                         |          |  |  |
|               | TB sizes, bit                   |                                             |                        |                                | 148 (alt 0, 148) (note) |          |  |  |
|               | TFS                             | TF0, bits                                   | 0x148 (alt 1x0) (note) |                                |                         |          |  |  |
|               |                                 | TF1, bits                                   |                        | 1x <sup>2</sup>                | 148                     |          |  |  |
|               | TTI, ms                         |                                             |                        | 1                              | 0                       |          |  |  |
|               | Coding type                     |                                             | CC 1/3                 |                                |                         |          |  |  |
|               | CRC, bit                        |                                             |                        | 16                             |                         |          |  |  |
|               | Max number of bits/<br>matching | Max number of bits/TTI before rate matching |                        | 5                              | 16                      |          |  |  |
| NOTE: alterna | ative parameters enable         | the measurement '                           | transport chan         | nel BLER" in th                | ne UE.                  |          |  |  |

#### 6.10.2.4.1.3.2.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for DCCH = TF0, TF1 |

#### 6.10.2.4.1.3.2.2 Physical channel parameters

| DPCH Downlink | DTX position             |                           | N/A (SingleTrCH) |
|---------------|--------------------------|---------------------------|------------------|
|               | Minimum spreading factor |                           | 128              |
|               | DPCCH                    | Number of TFCI bits/slot  | 0                |
|               |                          | Number of TPC bits/slot   | 2                |
|               |                          | Number of Pilot bits/slot | 4                |
|               | DPDCH                    | Number of data bits/slot  | 34               |
|               |                          | Number of data bits/frame | 510              |

6.10.2.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.4.1 Uplink

6.10.2.4.1.4.1.1 Transport channel parameters

#### 6.10.2.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| Higher<br>layer | RAB/Signa     | alling RB                                 | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|-----------------|---------------|-------------------------------------------|----------------------------|----------------|----------------|
| RLC             | Logical ch    | annel type                                |                            | DTCH           |                |
|                 | RLC mode      |                                           | TM                         | TM             | TM             |
|                 | Payload s     | izes, bit                                 | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|                 | Max data      | rate, bps                                 | ,                          | 12200          |                |
|                 | TrD PDU       | header, bit                               |                            | 0              |                |
| ИАС             | MAC head      | der, bit                                  |                            | 0              |                |
|                 | MAC mult      | iplexing                                  |                            | N/A            |                |
| _ayer 1         | TrCH type     |                                           | DCH                        | DCH            | DCH            |
|                 | TB sizes, bit |                                           | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|                 | TFS           | TF0, bits                                 | 0x81(alt. 1x0) (note)      | 0x103          | 0x60           |
|                 |               | TF1, bits                                 | 1x39                       | 1x103          | 1x60           |
|                 |               | TF2, bits                                 | 1x81                       | N/A            | N/A            |
|                 | TTI, ms       |                                           | 20                         | 20             | 20             |
|                 | Coding type   | ре                                        | CC 1/3                     | CC 1/3         | CC 1/2         |
|                 | CRC, bit      |                                           | 12                         | N/A            | N/A            |
|                 | Max numb      | per of bits/TTI after oding               | 303                        | 333            | 136            |
|                 | Uplink: Ma    | ax number of bits/radio ore rate matching | 152                        | 167            | 68             |
|                 | RM attribute  |                                           | 180-220                    | 170-210        | 215-256        |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.

#### 6.10.2.4.1.4.1.1.3 TFCS

| TFCS size | 6                                                                 |
|-----------|-------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=               |
|           | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)  |

#### 6.10.2.4.1.4.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.4.2 Downlink

6.10.2.4.1.4.2.1 Transport channel parameters

#### 6.10.2.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher<br>layer | RAB/Signa             | lling RB                     | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|-----------------|-----------------------|------------------------------|----------------|----------------|----------------|
| RLC             | Logical channel type  |                              |                | DTCH           |                |
|                 | RLC mode              | •                            | TM             | TM             | TM             |
|                 | Payload siz           | es, bit                      | 0<br>39<br>81  | 103            | 60             |
|                 | Max data ra           | ate, bps                     |                | 12 200         | II.            |
|                 | TrD PDU h             | eader, bit                   |                | 0              |                |
| MAC             | MAC header, bit       |                              |                | 0              |                |
|                 | MAC multiplexing      |                              |                | N/A            |                |
| Layer 1         | TrCH type             |                              | DCH            | DCH            | DCH            |
|                 | TB sizes, bit         |                              | 0<br>39<br>81  | 103            | 60             |
|                 | TFS                   | TF0, bits                    | 1x0 (note 2)   | 0x103          | 0x60           |
|                 | (note 1)              | TF1, bits                    | 1x39           | 1x103          | 1x60           |
|                 |                       | TF2, bits                    | 1x81           | N/A            | N/A            |
|                 | TTI, ms               |                              | 20             | 20             | 20             |
|                 | Coding type           | 9                            | CC 1/3         | CC 1/3         | CC 1/2         |
| Ì               | CRC, bit              |                              | 12             | N/A            | N/A            |
|                 | Max number channel co | er of bits/TTI after<br>ding | 303            | 333            | 136            |
|                 | RM attribut           | е                            | 180-220        | 170-210        | 215-256        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212.).

#### 6.10.2.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.4.2.1.3 TFCS

| TFCS size | 6                                                                 |
|-----------|-------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=               |
|           | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)  |

#### 6.10.2.4.1.4.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 128   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 34    |
|          |                  | Number of data bits/frame | 510   |

6.10.2.4.1.4a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.4a.1.1 Transport channel parameters

## 6.10.2.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Sign   | alling RB                         | RAB subflow #1                                        | RAB subflow #2  | RAB subflow #3 |  |
|-----------------|------------|-----------------------------------|-------------------------------------------------------|-----------------|----------------|--|
| RLC             | Logical ch | nannel type                       | DTCH                                                  |                 |                |  |
|                 | RLC mod    |                                   | TM                                                    | TM              | TM             |  |
|                 | Payload s  | sizes, bit                        | 39, 42, 55, 75, 81<br>(alt. 0, 39, 81)                | 53, 63, 84, 103 | 60             |  |
|                 | Max data   | rate, bps                         | , , , , , , , , , , , , , , , , , , ,                 | 12200           |                |  |
|                 | TrD PDU    | header, bit                       |                                                       | 0               |                |  |
| MAC             | MAC head   | der, bit                          |                                                       | 0               |                |  |
|                 | MAC mult   | tiplexing                         |                                                       | N/A             |                |  |
| Layer 1         | TrCH type  | )                                 | DCH                                                   | DCH             | DCH            |  |
|                 |            | TB sizes, bit                     | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55,<br>75, 81) | 53, 63, 84, 103 | 60             |  |
|                 | TFS        | TF0, bits                         | 0x81(alt. 1x0)<br>(note)                              | 0x103           | 0x60           |  |
|                 |            | TF1, bits                         | 1x39                                                  | 1x53            | 1x60           |  |
|                 |            | TF2 bits                          | 1x42                                                  | 1x63            | N/A            |  |
|                 |            | TF3, bits                         | 1x55                                                  | 1x84            | N/A            |  |
|                 |            | TF4, bits                         | 1x75                                                  | 1x103           | N/A            |  |
|                 |            | TF5, bits                         | 1x81                                                  | N/A             | N/A            |  |
|                 | TTI, ms    |                                   | 20                                                    | 20              | 20             |  |
|                 | Coding ty  | pe                                | CC 1/3                                                | CC 1/3          | CC 1/2         |  |
|                 | CRC, bit   |                                   | 12                                                    | N/A             | N/A            |  |
|                 | Max numb   | ber of bits/TTI after<br>oding    | 303                                                   | 333             | 136            |  |
|                 |            | ax number of<br>frame before rate | 152                                                   | 167             | 68             |  |
|                 | RM attribu | ute                               | 180-220                                               | 170-210         | 215-256        |  |
|                 |            |                                   | RC parity bits are to be a e is no data on RAB sub    |                 |                |  |

#### 6.10.2.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.4a.1.1.3 TFCS

| TFCS size | 12                                                                                                                                                 |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)= (TF0,TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),                       |
|           | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

#### 6.10.2.4.1.4a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.4a.2 Downlink

6.10.2.4.1.4a.2.1 Transport channel parameters

6.10.2.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Signa     | alling RB                   | RAB subflow #1           | RAB subflow #2  | RAB subflow #3 |
|-----------------|---------------|-----------------------------|--------------------------|-----------------|----------------|
| RLC             | Logical ch    | annel type                  |                          | DTCH            |                |
|                 | RLC mode      |                             | TM                       | TM              | TM             |
|                 | Payload s     | izes, bit                   | 0, 39, 42, 55, 75,<br>81 | 53, 63, 84, 103 | 60             |
|                 | Max data      | rate, bps                   |                          | 12 200          |                |
|                 | TrD PDU I     | header, bit                 |                          | 0               |                |
| MAC             | MAC head      | der, bit                    |                          | 0               |                |
|                 | MAC mult      | iplexing                    |                          | N/A             |                |
| Layer 1         | TrCH type     |                             | DCH                      | DCH             | DCH            |
| -               | TB sizes, bit |                             | 0, 39, 42, 55, 75,<br>81 | 53, 63, 84, 103 | 60             |
|                 | TFS           | TF0, bits                   | 1x0 (note 2)             | 0x103           | 0x60           |
|                 | (note 1)      | TF1, bits                   | 1x39                     | 1x53            | 1x60           |
|                 |               | TF2, bits                   | 1x42                     | 1x63            | N/A            |
|                 |               | TF3, bits                   | 1x55                     | 1x84            | N/A            |
|                 |               | TF4, bits                   | 1x75                     | 1x103           | N/A            |
|                 |               | TF5, bits                   | 1x81                     | N/A             | N/A            |
|                 | TTI, ms       |                             | 20                       | 20              | 20             |
|                 | Coding typ    | oe                          | CC 1/3                   | CC 1/3          | CC 1/2         |
|                 | CRC, bit      |                             | 12                       | N/A             | N/A            |
|                 | Max numb      | per of bits/TTI after oding | 303                      | 333             | 136            |
|                 | RM attribu    | ite                         | 180-220                  | 170-210         | 215-256        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212.).

#### 6.10.2.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.4a.2.1.3 TFCS

| TFCS size | 12                                                                          |
|-----------|-----------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=                        |
|           | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), |
|           | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), |
|           | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)  |

#### 6.10.2.4.1.4a.2.2 Physical channel parameters

| DPCH     | DTX position                   |                           | Fixed |
|----------|--------------------------------|---------------------------|-------|
| Downlink | Spreading factor               |                           | 128   |
|          | DPCCH Number of TFCI bits/slot |                           | 0     |
|          |                                | Number of TPC bits/slot   | 2     |
|          |                                | Number of Pilot bits/slot | 4     |
|          | DPDCH                          | Number of data bits/slot  | 34    |
|          |                                | Number of data bits/frame | 510   |

6.10.2.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.5.1 Uplink

6.10.2.4.1.5.1.1 Transport channel parameters

#### 6.10.2.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher<br>layer | RAB/Sigi                                    | nalling RB                                  | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |  |
|-----------------|---------------------------------------------|---------------------------------------------|----------------------------|----------------|----------------|--|
| RLC             | Logical channel type                        |                                             |                            | DTCH           |                |  |
|                 | RLC mod                                     |                                             | TM                         | TM             | TM             |  |
|                 | Payload                                     | sizes, bit                                  | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |  |
|                 | Max data                                    | rate, bps                                   | ,                          | 10200          |                |  |
|                 | TrD PDU                                     | header, bit                                 |                            | 0              |                |  |
| ИАС             | MAC hea                                     | ader, bit                                   |                            | 0              |                |  |
|                 | MAC multiplexing                            |                                             |                            | N/A            |                |  |
| _ayer 1         | TrCH type                                   |                                             | DCH                        | DCH            | DCH            |  |
|                 | TB sizes, bit                               |                                             | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |  |
|                 | TFS                                         | TF0, bits                                   | 0x65 (alt. 1x0)<br>(note)  | 0x99           | 0x40           |  |
|                 |                                             | TF1, bits                                   | 1x39                       | 1x99           | 1x40           |  |
|                 |                                             | TF2, bits                                   | 1x65                       | N/A            | N/A            |  |
|                 | TTI, ms                                     |                                             | 20                         | 20             | 20             |  |
|                 | Coding type                                 |                                             | CC 1/3                     | CC 1/3         | CC 1/2         |  |
|                 | CRC, bit                                    |                                             | 12                         | N/A            | N/A            |  |
|                 | Max number of bits/TTI after channel coding |                                             | 255                        | 321            | 96             |  |
|                 | Uplink: N                                   | lax number of bits/radio fore rate matching | 128                        | 161            | 48             |  |
|                 | RM attrib                                   |                                             | 180-220                    | 170-210        | 215-256        |  |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.5.1.1.3 TFCS

| TFCS size                                                | 6                                                                 |  |
|----------------------------------------------------------|-------------------------------------------------------------------|--|
| TFCS (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= |                                                                   |  |
|                                                          | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), |  |
|                                                          | (TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)       |  |

#### 6.10.2.4.1.5.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.5.2 Downlink

6.10.2.4.1.5.2.1 Transport channel parameters

#### 6.10.2.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |  |
|-----------------|---------------------------------------------|----------------|----------------|----------------|--|
| RLC             | Logical channel type                        |                | DTCH           |                |  |
|                 | RLC mode                                    | TM             | TM             | TM             |  |
|                 | Payload sizes, bit                          | 0              | 99             | 40             |  |
|                 |                                             | 39<br>65       |                |                |  |
|                 | Max data rate, bps                          |                | 10 200         |                |  |
|                 | TrD PDU header, bit                         |                | 0              |                |  |
| MAC             | MAC header, bit                             |                | 0              |                |  |
|                 | MAC multiplexing                            |                | N/A            |                |  |
| Layer 1         | TrCH type                                   | DCH            | DCH            | DCH            |  |
|                 | TB sizes, bit                               | 0<br>39<br>65  | 99             | 40             |  |
|                 | TFS TF0, bits                               | 1x0 (note 2)   | 0x99           | 0x40           |  |
|                 | (note 1) TF1, bits                          | 1x39           | 1x99           | 1x40           |  |
|                 | TF2, bits                                   | 1x65           | N/A            | N/A            |  |
|                 | TTI, ms                                     | 20             | 20             | 20             |  |
|                 | Coding type                                 | CC 1/3         | CC 1/3         | CC 1/2         |  |
|                 | CRC, bit                                    | 12             | N/A            | N/A            |  |
|                 | Max number of bits/TTI after channel coding | 255            | 321            | 96             |  |
|                 | RM attribute                                | 180-220        | 170-210        | 215-256        |  |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.5.2.1.3 TFCS

| TFCS size | 6                                                                 |
|-----------|-------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=               |
|           | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)  |

#### 6.10.2.4.1.5.2.2 Physical channel parameters

| DPCH     |       |                           | Fixed |
|----------|-------|---------------------------|-------|
| Downlink |       |                           | 128   |
|          |       |                           | 0     |
|          |       |                           | 2     |
|          |       | Number of Pilot bits/slot | 4     |
|          | DPDCH | Number of data bits/slot  | 34    |
|          |       | Number of data bits/frame | 510   |

6.10.2.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.5a.1 Uplink

6.10.2.4.1.5a.1.1 Transport channel parameters

6.10.2.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                                        | RAB subflow #1                                        | RAB subflow #2         | RAB subflow #3     |  |
|-----------------|--------------------------------------------------------------------------|-------------------------------------------------------|------------------------|--------------------|--|
| RLC             | Logical channel type                                                     |                                                       | DTCH                   |                    |  |
|                 | RLC mode                                                                 | TM                                                    | TM                     | TM                 |  |
|                 | Payload sizes, bit                                                       | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55,<br>58, 65) | 53, 63, 76, 99         | 40                 |  |
|                 | Max data rate, bps                                                       |                                                       | 10200                  |                    |  |
|                 | TrD PDU header, bit                                                      |                                                       | 0                      |                    |  |
| MAC             | MAC header, bit                                                          |                                                       | 0                      |                    |  |
|                 | MAC multiplexing                                                         |                                                       | N/A                    |                    |  |
| Layer 1         | TrCH type                                                                | DCH                                                   | DCH                    | DCH                |  |
|                 | TB sizes, bit                                                            | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55,<br>58, 65) | 53, 63, 76, 99         | 40                 |  |
|                 | TFS TF0, bits                                                            | 0x65 (alt. 1x0)<br>(note)                             | 0x99                   | 0x40               |  |
|                 | TF1, bits                                                                | 1x39                                                  | 1x53                   | 1x40               |  |
|                 | TF2, bits                                                                | 1x42                                                  | 1x63                   | N/A                |  |
|                 | TF3, bits                                                                | 1x55                                                  | 1x76                   | N/A                |  |
|                 | TF4, bits                                                                | 1x58                                                  | 1x99                   | N/A                |  |
|                 | TF5, bits                                                                | 1x65                                                  | N/A                    | N/A                |  |
|                 | TTI, ms                                                                  | 20                                                    | 20                     | 20                 |  |
|                 | Coding type                                                              | CC 1/3                                                | CC 1/3                 | CC 1/2             |  |
|                 | CRC, bit                                                                 | 12                                                    | N/A                    | N/A                |  |
|                 | Max number of bits/TTI after channel coding                              | 255                                                   | 321                    | 96                 |  |
|                 | Uplink: Max number of bits/radio frame before rate matching              | 128                                                   | 161                    | 48                 |  |
|                 | RM attribute                                                             | 180-220                                               | 170-210                | 215-256            |  |
| NOTE:           | In case of using this alternative, CI number of TrBlks are 1 even if the | RC parity bits are to be a                            | attached to RAB subflo | w#1 any time since |  |

#### Transport channel parameters for UL:3.4 kbps SRBs for DCCH 6.10.2.4.1.5a.1.1.2

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.5a.1.1.3 **TFCS**

| TFCS size | 12                                                                          |
|-----------|-----------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                         |
|           | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), |
|           | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), |
|           | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)  |

#### 6.10.2.4.1.5a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.5a.2 Downlink

6.10.2.4.1.5a.2.1 Transport channel parameters

## 6.10.2.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>Layer | RAB/Signa            | alling RB                  | RAB subflow #1           | RAB subflow #2    | RAB subflow #3 |
|-----------------|----------------------|----------------------------|--------------------------|-------------------|----------------|
| RLC             | Logical channel type |                            |                          | DTCH              | <u> </u>       |
|                 | RLC mode             |                            | TM                       | TM                | TM             |
|                 | Payload si           | zes, bit                   | 0, 39, 42, 55, 58,<br>65 | 0, 53, 63, 76, 99 | 40             |
|                 | Max data             | rate, bps                  |                          | 10 200            | •              |
|                 | TrD PDU I            | neader, bit                |                          | 0                 |                |
| MAC             | MAC head             | ler, bit                   |                          | 0                 |                |
|                 | MAC multiplexing     |                            |                          | N/A               |                |
| Layer 1         | TrCH type            |                            | DCH                      | DCH               | DCH            |
|                 | TB sizes, bit        |                            | 0, 39, 42, 55, 58,<br>65 | 0, 53, 63, 76, 99 | 40             |
|                 | TFS                  | TF0, bits                  | 1x0 (note 2)             | 0x99              | 0x40           |
|                 | (note 1)             | TF1, bits                  | 1x39                     | 1x53              | 1x40           |
|                 |                      | TF2, bits                  | 1x42                     | 1x63              | N/A            |
|                 |                      | TF3, bits                  | 1x55                     | 1x76              | N/A            |
|                 |                      | TF4, bits                  | 1x58                     | 1x99              | N/A            |
|                 |                      | TF5, bits                  | 1x65                     | N/A               | N/A            |
|                 | TTI, ms              |                            | 20                       | 20                | 20             |
|                 | Coding type          |                            | CC 1/3                   | CC 1/3            | CC 1/2         |
|                 | CRC, bit             |                            | 12                       | N/A               | N/A            |
|                 | Max numb             | er of bits/TTI after oding | 255                      | 321               | 96             |
|                 | RM attribu           | te                         | 180-220                  | 170-210           | 215-256        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.5a.2.1.3 TFCS

| TFCS size | 12                                                                          |
|-----------|-----------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                         |
|           | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), |
|           | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), |
|           | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)  |

#### 6.10.2.4.1.5a.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 128   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 34    |
|          |                  | Number of data bits/frame | 510   |

6.10.2.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.6.1 Uplink

6.10.2.4.1.6.1.1 Transport channel parameters

#### 6.10.2.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB subflow #1          | RAB subflow #2 |  |  |
|-----------------|-----------------------------------------------|-------------------------|----------------|--|--|
| RLC             | Logical channel type                          | DTO                     | DTCH           |  |  |
|                 | RLC mode                                      | TM                      | TM             |  |  |
|                 | Payload sizes, bit                            | 39, 75 (alt. 0, 39, 75) | 84             |  |  |
|                 | Max data rate, bps                            | 795                     | 50             |  |  |
|                 | TrD PDU header, bit                           | 0                       |                |  |  |
| ИAC             | MAC header, bit                               | 0                       |                |  |  |
|                 | MAC multiplexing                              | N/A                     | A              |  |  |
| _ayer 1         | TrCH type                                     | DCH                     | DCH            |  |  |
| •               | TB sizes, bit                                 | 39, 75 (alt. 0, 39, 75) | 84             |  |  |
|                 | TFS TF0, bits                                 | 0x75 (alt. 1x0) (note)  | 0x84           |  |  |
|                 | TF1, bits                                     | 1x39                    | 1x84           |  |  |
|                 | TF2, bits                                     | 1x75                    | N/A            |  |  |
|                 | TTI, ms                                       | 20 20                   |                |  |  |
|                 | Coding type                                   | CC 1/3                  | CC 1/3         |  |  |
|                 | CRC, bit                                      | 12 N/A                  |                |  |  |
|                 | Max number of bits/TTI after channel coding   | 285 276                 |                |  |  |
|                 | Uplink: Max number of bits/radio frame before | 143                     | 138            |  |  |
|                 | rate matching                                 |                         |                |  |  |
|                 | RM attribute                                  | 180-220                 | 170-210        |  |  |

6.10.2.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.6.1.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

#### 6.10.2.4.1.6.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.6.2 Downlink

6.10.2.4.1.6.2.1 Transport channel parameters

#### 6.10.2.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher<br>layer | RAB/Signa   | alling RB                           | RAB subflow #1 | RAB subflow #2 |  |
|-----------------|-------------|-------------------------------------|----------------|----------------|--|
| RLC             | Logical ch  | annel type                          | DT             | DTCH           |  |
|                 | RLC mode    | )                                   | TM             | TM             |  |
|                 | Payload si  | zes, bit                            | 0<br>39<br>75  | 84             |  |
|                 | Max data    | rate, bps                           |                | 950            |  |
|                 | TrD PDU I   | neader, bit                         |                | 0              |  |
| MAC             | MAC head    | ler, bit                            |                | 0              |  |
|                 | MAC multi   | plexing                             | N/A            |                |  |
| Layer 1         | TrCH type   |                                     | DCH            | DCH            |  |
|                 | TB sizes, I | pit                                 | 0<br>39<br>75  | 84             |  |
|                 | TFS         | TF0, bits                           | 1x0 (note 2)   | 0x84           |  |
|                 | (note 1)    | TF1, bits                           | 1x39           | 1x84           |  |
|                 |             | TF2, bits                           | 1x75           | N/A            |  |
|                 | TTI, ms     | ·                                   | 20             | 20             |  |
|                 | Coding typ  | oe                                  | CC 1/3         | CC 1/3         |  |
|                 | CRC, bit    |                                     | 12             | N/A            |  |
|                 | Max numb    | er of bits/TTI after channel coding | 285            | 276            |  |
|                 | RM attribu  | te                                  | 180-220        | 170-210        |  |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.6.2.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

#### 6.10.2.4.1.6.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Fixed |
|----------|--------------|---------------------------|-------|
| Downlink | Spreading    | factor                    | 128   |
|          | DPCCH        | Number of TFCI bits/slot  | 0     |
|          |              | Number of TPC bits/slot   | 2     |
|          |              | Number of Pilot bits/slot | 4     |
|          | DPDCH        | Number of data bits/slot  | 34    |
|          |              | Number of data bits/frame | 510   |

6.10.2.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.7.1 Uplink

6.10.2.4.1.7.1.1 Transport channel parameters

#### 6.10.2.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                                                                                           | RAB subflow #1          | RAB subflow #2 |
|-----------------|-------------------------------------------------------------------------------------------------------------|-------------------------|----------------|
| RLC             | Logical channel type                                                                                        | DTO                     | CH             |
|                 | RLC mode                                                                                                    | TM                      | TM             |
|                 | Payload sizes, bit                                                                                          | 39, 61 (alt. 0, 39, 61) | 87             |
|                 | Max data rate, bps                                                                                          | 7400                    |                |
|                 | TrD PDU header, bit                                                                                         | 0                       |                |
| MAC             | MAC header, bit                                                                                             | 0                       |                |
|                 | MAC multiplexing                                                                                            | N/A                     | A              |
| Layer 1         | TrCH type                                                                                                   | DCH                     | DCH            |
|                 | TB sizes, bit                                                                                               | 39, 61 (alt. 0, 39, 61) | 87             |
|                 | TFS TF0, bits                                                                                               | 0x61 (alt. 1x0) (note)  | 0x87           |
|                 | TF1, bits                                                                                                   | 1x39                    | 1x87           |
|                 | TF2, bits                                                                                                   | 1x61                    | N/A            |
|                 | TTI, ms                                                                                                     | 20                      | 20             |
|                 | Coding type                                                                                                 | CC 1/3                  | CC 1/3         |
|                 | CRC, bit                                                                                                    | 12                      | N/A            |
|                 | Max number of bits/TTI after channel coding                                                                 | 243                     | 285            |
|                 | Uplink: Max number of bits/radio frame before rate matching                                                 | 122                     | 143            |
|                 | RM attribute                                                                                                | 180-220                 | 170-210        |
|                 | In case of using this alternative, CRC parity bits are of TrBlks are 1 even if there is no data on RAB subf |                         |                |

6.10.2.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.7.1.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

#### 6.10.2.4.1.7.1.2 Physical channel parameters

| DPCH                                       | Min spreading factor | 64   |
|--------------------------------------------|----------------------|------|
| Uplink Max number of DPDCH data bits/radio |                      | 600  |
|                                            | frame                |      |
|                                            | Puncturing Limit     | 0.96 |

6.10.2.4.1.7.2 Downlink

6.10.2.4.1.7.2.1 Transport channel parameters

#### 6.10.2.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher<br>layer | RAB/Signa   | alling RB                            | RAB subflow #1 | RAB subflow #2 |
|-----------------|-------------|--------------------------------------|----------------|----------------|
| RLC             | Logical ch  | annel type                           | DT             | CH             |
|                 | RLC mode    | 9                                    | TM             | TM             |
|                 | Payload s   | izes, bit                            | 0              | 87             |
|                 |             |                                      | 39             |                |
|                 |             |                                      | 61             |                |
|                 | Max data    | rate, bps                            | 74             | 00             |
|                 | TrD PDU I   | header, bit                          | C              |                |
| MAC             | MAC head    | der, bit                             | C              | )              |
|                 | MAC mult    | iplexing                             | N/A            |                |
| Layer 1         | TrCH type   | •                                    | DCH            | DCH            |
|                 | TB sizes,   | bit                                  | 0              | 87             |
|                 |             |                                      | 39             |                |
|                 |             |                                      | 61             |                |
|                 | TFS         | TF0, bits                            | 1x0 (note 2)   | 0x87           |
|                 | (note 1)    | TF1, bits                            | 1x39           | 1x87           |
|                 |             | TF2, bits                            | 1x61           | N/A            |
|                 | TTI, ms     |                                      | 20             | 20             |
|                 | Coding type | oe .                                 | CC 1/3         | CC 1/3         |
|                 | CRC, bit    |                                      | 12             | N/A            |
|                 | Max numb    | per of bits/TTI after channel coding | 243            | 285            |
|                 | RM attribu  | ute State                            | 180-220        | 170-210        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in TS 25.212.).

#### 6.10.2.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.7.2.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

#### 6.10.2.4.1.7.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Fixed |
|----------|--------------|---------------------------|-------|
| Downlink | Spreading    | factor                    | 128   |
|          | DPCCH        | Number of TFCI bits/slot  | 0     |
|          |              | Number of TPC bits/slot   | 2     |
|          |              | Number of Pilot bits/slot | 4     |
|          | DPDCH        | Number of data bits/slot  | 34    |
|          |              | Number of data bits/frame | 510   |

6.10.2.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.7a.1 Uplink

6.10.2.4.1.7a.1.1 Transport channel parameters

## 6.10.2.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Sig                                                     | nalling RB                           | RAB subflow #1                                  | RAB subflow #2 |
|-----------------|-------------------------------------------------------------|--------------------------------------|-------------------------------------------------|----------------|
| RLC             | Logical channel type                                        |                                      | DTC                                             | Н              |
|                 | RLC mod                                                     |                                      | TM                                              | TM             |
|                 |                                                             | Payload sizes, bit                   | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|                 | Max data                                                    | a rate, bps                          | 7400                                            | 0              |
|                 | TrD PDU                                                     | header, bit                          | 0                                               |                |
| MAC             | MAC hea                                                     | ader, bit                            | 0                                               |                |
|                 | MAC mu                                                      | Itiplexing                           | N/A                                             | 1              |
| Layer 1         | TrCH typ                                                    | e                                    | DCH                                             | DCH            |
|                 | TB sizes, bit                                               |                                      | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|                 | TFS                                                         | TF0, bits                            | 0x61 (alt. 1x0) (note)                          | 0x87           |
|                 |                                                             | TF1, bits                            | 1x39                                            | 1x53           |
|                 |                                                             | TF2, bits                            | 1x42                                            | 1x63           |
|                 |                                                             | TF3, bits                            | 1x55                                            | 1x76           |
|                 |                                                             | TF4, bits                            | 1x58                                            | 1x87           |
|                 |                                                             | TF5, bits                            | 1x61                                            | N/A            |
|                 | TTI, ms                                                     |                                      | 20                                              | 20             |
|                 | Coding type                                                 |                                      | CC 1/3                                          | CC 1/3         |
|                 | CRC, bit                                                    |                                      | 12                                              | N/A            |
|                 | Max num                                                     | ber of bits/TTI after channel coding | 243                                             | 285            |
|                 | Uplink: Max number of bits/radio frame before rate matching |                                      | 122                                             | 143            |
|                 | RM attribute                                                |                                      | 180-220                                         | 170-210        |

6.10.2.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.7a.1.1.3 TFCS

| TFCS size | 12                                                                                         |
|-----------|--------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=                                                      |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, |
|           | TF4, TF0),                                                                                 |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, |
|           | TF4, TF1)                                                                                  |

#### 6.10.2.4.1.7a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.7a.2 Downlink

6.10.2.4.1.7a.2.1 Transport channel parameters

## 6.10.2.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Signa            | alling RB                           | RAB subflow #1        | RAB subflow #2 |
|-----------------|----------------------|-------------------------------------|-----------------------|----------------|
| RLC             | Logical channel type |                                     | DTO                   | CH             |
|                 | RLC mode             |                                     | TM                    | TM             |
|                 | Payload si           | izes, bit                           | 0, 39, 42, 55, 58, 61 | 53, 63, 76, 87 |
|                 | Max data             | rate, bps                           | 740                   | 00             |
|                 | TrD PDU I            | neader, bit                         | 0                     |                |
| MAC             | MAC head             | der, bit                            | 0                     |                |
|                 | MAC multiplexing     |                                     | N/A                   |                |
| Layer 1         | TrCH type            |                                     | DCH                   | DCH            |
|                 | TB sizes, I          | bit                                 | 0, 39, 42, 55, 58, 61 | 53, 63, 76, 87 |
|                 | TFS                  | TF0, bits                           | 1x0 (note 2)          | 0x87           |
|                 | (note 1)             | TF1, bits                           | 1x39                  | 1x53           |
|                 |                      | TF2, bits                           | 1x42                  | 1x63           |
|                 |                      | TF3, bits                           | 1x55                  | 1x76           |
|                 |                      | TF4, bits                           | 1x58                  | 1x87           |
|                 |                      | TF5, bits                           | 1x61                  | N/A            |
|                 | TTI, ms              |                                     | 20                    | 20             |
|                 | Coding type          |                                     | CC 1/3                | CC 1/3         |
|                 | CRC, bit             |                                     | 12                    | N/A            |
|                 | Max numb             | er of bits/TTI after channel coding | 243                   | 285            |
|                 | RM attribu           | te                                  | 180-220               | 170-210        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in TS 25.212.).

#### 6.10.2.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.7a.2.1.3 TFCS

| TFCS size                                  | 12                                                                                         |  |  |  |
|--------------------------------------------|--------------------------------------------------------------------------------------------|--|--|--|
| TFCS (RAB subflow#1, RAB subflow#2, DCCH)= |                                                                                            |  |  |  |
|                                            | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, |  |  |  |
|                                            | TF4, TF0),                                                                                 |  |  |  |
|                                            | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, |  |  |  |
|                                            | TF4, TF1)                                                                                  |  |  |  |

#### 6.10.2.4.1.7a.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Fixed |
|----------|--------------|---------------------------|-------|
| Downlink | Spreading    | factor                    | 128   |
|          | DPCCH        | Number of TFCI bits/slot  | 0     |
|          |              | Number of TPC bits/slot   | 2     |
|          |              | Number of Pilot bits/slot | 4     |
|          | DPDCH        | Number of data bits/slot  | 34    |
|          |              | Number of data bits/frame | 510   |

6.10.2.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.8.1 Uplink

6.10.2.4.1.8.1.1 Transport channel parameters

#### 6.10.2.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB   |                                                                                       | RAB subflow #1          | RAB subflow #2 |
|-----------------|---------------------|---------------------------------------------------------------------------------------|-------------------------|----------------|
| RLC             | Logical             | channel type                                                                          | DTCH                    |                |
|                 | RLC mod             |                                                                                       | TM                      | TM             |
|                 | Payload             | sizes, bit                                                                            | 39, 58 (alt. 0, 39, 58) | 76             |
|                 | Max data            | a rate, bps                                                                           | 6700                    |                |
|                 | TrD PDU header, bit |                                                                                       | 0                       |                |
| MAC             | MAC header, bit     |                                                                                       | 0                       |                |
|                 | MAC multiplexing    |                                                                                       | N/A                     |                |
| Layer 1         | TrCH type           |                                                                                       | DCH                     | DCH            |
|                 | TB sizes            | , bit                                                                                 | 39, 58 (alt. 0, 39, 58) | 76             |
|                 | TFS                 | TF0, bits                                                                             | 0x58 (alt. 1x0) (note)  | 0x76           |
|                 |                     | TF1, bits                                                                             | 1x39                    | 1x76           |
|                 |                     | TF2, bits                                                                             | 1x58                    | N/A            |
|                 | TTI, ms             |                                                                                       | 20                      | 20             |
|                 | Coding t            |                                                                                       | CC 1/3                  | CC 1/3         |
|                 | CRC, bit            |                                                                                       | 12                      | N/A            |
|                 | Max num             | nber of bits/TTI after channel coding                                                 | 234                     | 252            |
|                 | Uplink: Nate mate   | Max number of bits/radio frame before ching                                           | 117                     | 126            |
|                 | RM attribute        |                                                                                       | 180-220                 | 170-210        |
|                 |                     | sing this alternative, CRC parity bits are e 1 even if there is no data on RAB subfle |                         | -              |

6.10.2.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.8.1.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

#### 6.10.2.4.1.8.1.2 Physical channel parameters

| DPCH Min spreading factor |                                     | 64   |
|---------------------------|-------------------------------------|------|
| Uplink                    | Max number of DPDCH data bits/radio | 600  |
|                           | frame                               |      |
|                           | Puncturing Limit                    | 0.96 |

6.10.2.4.1.8.2 Downlink

6.10.2.4.1.8.2.1 Transport channel parameters

# 6.10.2.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB subflow #1 | RAB subflow #2 |  |
|-----------------|---------------------------------------------|----------------|----------------|--|
| RLC             | Logical channel type                        | DTO            | DTCH           |  |
|                 | RLC mode                                    | TM             | TM             |  |
|                 | Payload sizes, bit                          | 0              | 76             |  |
|                 |                                             | 39             |                |  |
|                 |                                             | 58             |                |  |
|                 | Max data rate, bps                          | 670            | 00             |  |
|                 | TrD PDU header, bit                         | 0              |                |  |
| MAC             | MAC header, bit                             | 0              | 1              |  |
|                 | MAC multiplexing                            | N/A            |                |  |
| Layer 1         | TrCH type                                   | DCH            | DCH            |  |
|                 | TB sizes, bit                               | 0              | 76             |  |
|                 |                                             | 39             |                |  |
|                 |                                             | 58             |                |  |
|                 | TFS TF0, bits                               | 1x0 (note 2)   | 0x76           |  |
|                 | (note 1) TF1, bits                          | 1x39           | 1x76           |  |
|                 | TF2, bits                                   | 1x58           | N/A            |  |
|                 | TTI, ms                                     | 20             | 20             |  |
|                 | Coding type                                 | CC 1/3         | CC 1/3         |  |
|                 | CRC, bit                                    | 12             | N/A            |  |
|                 | Max number of bits/TTI after channel coding | 234            | 252            |  |
|                 | RM attribute                                | 180-220        | 170-210        |  |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.8.2.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

# 6.10.2.4.1.8.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Fixed |
|----------|--------------|---------------------------|-------|
| Downlink | Spreading    | factor                    | 128   |
|          | DPCCH        | Number of TFCI bits/slot  | 0     |
|          |              | Number of TPC bits/slot   | 2     |
|          |              | Number of Pilot bits/slot | 4     |
|          | DPDCH        | Number of data bits/slot  | 34    |
|          |              | Number of data bits/frame | 510   |

6.10.2.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.9.1 Uplink

6.10.2.4.1.9.1.1 Transport channel parameters

#### 6.10.2.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                                                                                           | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|-------------------------------------------------------------------------------------------------------------|-------------------------|----------------|--|
| RLC             | Logical channel type                                                                                        | DTC                     | DTCH           |  |
|                 | RLC mode                                                                                                    | TM                      | TM             |  |
|                 | Payload sizes, bit                                                                                          | 39, 55 (alt. 0, 39, 55) | 63             |  |
|                 | Max data rate, bps                                                                                          | 590                     | 00             |  |
|                 | TrD PDU header, bit                                                                                         | 0                       |                |  |
| MAC             | MAC header, bit                                                                                             | 0                       |                |  |
|                 | MAC multiplexing                                                                                            | N/A                     | 4              |  |
| Layer 1         | TrCH type                                                                                                   | DCH                     | DCH            |  |
|                 | TB sizes, bit                                                                                               | 39, 55 (alt. 0, 39, 55) | 63             |  |
|                 | TFS TF0, bits                                                                                               | 0x55 (alt. 1x0) (note)  | 0x63           |  |
|                 | TF1, bits                                                                                                   | 1x39                    | 1x63           |  |
|                 | TF2, bits                                                                                                   | 1x55                    | N/A            |  |
|                 | TTI, ms                                                                                                     | 20                      | 20             |  |
|                 | Coding type                                                                                                 | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit                                                                                                    | 12                      | N/A            |  |
|                 | Max number of bits/TTI after channel coding                                                                 | 225                     | 213            |  |
|                 | Uplink: Max number of bits/radio frame before rate matching                                                 | 113                     | 107            |  |
|                 | RM attribute                                                                                                | 180-220                 | 170-210        |  |
|                 | In case of using this alternative, CRC parity bits are of TrBlks are 1 even if there is no data on RAB subf |                         |                |  |

6.10.2.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.9.1.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

# 6.10.2.4.1.9.1.2 Physical channel parameters

| DPCH Min spreading factor |                                     | 64   |
|---------------------------|-------------------------------------|------|
| Uplink                    | Max number of DPDCH data bits/radio | 600  |
|                           | frame                               |      |
|                           | Puncturing Limit                    | 0.96 |

6.10.2.4.1.9.2 Downlink

6.10.2.4.1.9.2.1 Transport channel parameters

#### 6.10.2.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher<br>layer | RAB/Signa   | alling RB                            | RAB subflow #1 | RAB subflow #2 |
|-----------------|-------------|--------------------------------------|----------------|----------------|
| RLC             | Logical ch  | annel type                           | DT             | CH             |
|                 | RLC mode    | 9                                    | TM             | TM             |
|                 | Payload s   | izes, bit                            | 0              | 63             |
|                 |             |                                      | 39             |                |
|                 |             |                                      | 55             |                |
|                 | Max data    | rate, bps                            | 59             | 00             |
|                 | TrD PDU I   | header, bit                          | C              |                |
| MAC             | MAC head    | der, bit                             | C              |                |
|                 | MAC mult    | iplexing                             | N/A            |                |
| Layer 1         | TrCH type   | •                                    | DCH            | DCH            |
|                 | TB sizes,   | bit                                  | 0              | 63             |
|                 |             |                                      | 39             |                |
|                 |             |                                      | 55             |                |
|                 | TFS         | TF0, bits                            | 1x0 (note 2)   | 0x63           |
|                 | (note 1)    | TF1, bits                            | 1x39           | 1x63           |
|                 |             | TF2, bits                            | 1x55           | N/A            |
|                 | TTI, ms     |                                      | 20             | 20             |
|                 | Coding type | oe                                   | CC 1/3         | CC 1/3         |
|                 | CRC, bit    |                                      | 12             | N/A            |
|                 | Max numb    | per of bits/TTI after channel coding | 225            | 213            |
|                 | RM attribu  | ite                                  | 180-220        | 170-210        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

# 6.10.2.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.9.2.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

#### 6.10.2.4.1.9.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 128   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 34    |
|          |                  | Number of data bits/frame | 510   |

6.10.2.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps

SRBs for DCCH

6.10.2.4.1.10.1 Uplink

6.10.2.4.1.10.1.1 Transport channel parameters

Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB 6.10.2.4.1.10.1.1

| Higher<br>layer | RAB/Signalling RB                             | RAB subflow #1          | RAB subflow #2 |
|-----------------|-----------------------------------------------|-------------------------|----------------|
| RLC             | Logical channel type                          | DTO                     | CH             |
|                 | RLC mode                                      | TM                      | TM             |
|                 | Payload sizes, bit                            | 39, 49 (alt. 0, 39, 49) | 54             |
|                 | Max data rate, bps                            | 515                     | 50             |
|                 | TrD PDU header, bit                           | 0                       |                |
| ИAC             | MAC header, bit                               | 0                       |                |
|                 | MAC multiplexing                              | N/A                     | A              |
| _ayer 1         | TrCH type                                     | DCH                     | DCH            |
| •               | TB sizes, bit                                 | 39, 49 (alt. 0, 39, 49) | 54             |
|                 | TFS TF0, bits                                 | 0x49 (alt. 1x0) (note)  | 0x54           |
|                 | TF1, bits                                     | 1x39                    | 1x54           |
|                 | TF2, bits                                     | 1x49                    | N/A            |
|                 | TTI, ms                                       | 20                      | 20             |
|                 | Coding type                                   | CC 1/3                  | CC 1/3         |
|                 | CRC, bit                                      | 12                      | N/A            |
|                 | Max number of bits/TTI after channel coding   | 207                     | 186            |
|                 | Uplink: Max number of bits/radio frame before | 104                     | 93             |
|                 | rate matching                                 |                         |                |
|                 | RM attribute                                  | 180-220                 | 170-210        |

6.10.2.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.2.4.1.1.1.1

#### 6.10.2.4.1.10.1.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

# 6.10.2.4.1.10.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 128  |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 300  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.10.2 Downlink

6.10.2.4.1.10.2.1 Transport channel parameters

#### 6.10.2.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher<br>layer | RAB/Signa   | alling RB                           | RAB subflow #1 | RAB subflow #2 |  |
|-----------------|-------------|-------------------------------------|----------------|----------------|--|
| RLC             | Logical ch  | annel type                          | DT             | CH             |  |
|                 | RLC mode    |                                     | TM             | TM             |  |
|                 | Payload si  | zes, bit                            | 0              | 54             |  |
|                 |             |                                     | 39             |                |  |
|                 |             |                                     | 49             |                |  |
|                 | Max data    | rate, bps                           | 51             | 50             |  |
|                 | TrD PDU I   | neader, bit                         |                | 0              |  |
| MAC             | MAC head    | ler, bit                            |                | 0              |  |
|                 | MAC multi   | plexing                             | N/A            |                |  |
| Layer 1         | TrCH type   |                                     | DCH            | DCH            |  |
|                 | TB sizes, I | oit                                 | 0              | 54             |  |
|                 |             |                                     | 39             |                |  |
|                 |             |                                     | 49             |                |  |
|                 | TFS         | TF0, bits                           | 1x0 (note 2)   | 0x54           |  |
|                 | (note 1)    | TF1, bits                           | 1x39           | 1x54           |  |
|                 |             | TF2, bits                           | 1x49           | N/A            |  |
|                 | TTI, ms     |                                     | 20             | 20             |  |
|                 | Coding typ  | pe e                                | CC 1/3         | CC 1/3         |  |
|                 | CRC, bit    |                                     | 12             | N/A            |  |
|                 | Max numb    | er of bits/TTI after channel coding | 207            | 186            |  |
|                 | RM attribu  |                                     | 180-220        | 170-210        |  |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.10.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.2.4.1.1.2.1.1

#### 6.10.2.4.1.10.2.1.3 TFCS

| TFCS size | 6                                                  |  |
|-----------|----------------------------------------------------|--|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |  |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |  |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |  |

# 6.10.2.4.1.10.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 256   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 14    |
|          |                  | Number of data bits/frame | 210   |

6.10.2.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.2.4.1.11.1 Uplink

6.10.2.4.1.11.1.1 Transport channel parameters

#### 6.10.2.4.1.11.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                                                                                           | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|-------------------------------------------------------------------------------------------------------------|-------------------------|----------------|--|
| RLC             | Logical channel type                                                                                        | DTO                     | DTCH           |  |
|                 | RLC mode                                                                                                    | TM                      | TM             |  |
|                 | Payload sizes, bit                                                                                          | 39, 42 (alt. 0, 39, 42) | 53             |  |
|                 | Max data rate, bps                                                                                          | 475                     | 4750           |  |
|                 | TrD PDU header, bit                                                                                         | 0                       |                |  |
| MAC             | MAC header, bit                                                                                             | 0                       |                |  |
|                 | MAC multiplexing                                                                                            | N/A                     | A              |  |
| Layer 1         | TrCH type                                                                                                   | DCH                     | DCH            |  |
|                 | TB sizes, bit                                                                                               | 39, 42 (alt. 0, 39, 42) | 53             |  |
|                 | TFS TF0, bits                                                                                               | 0x42 (alt. 1x0) (note)  | 0x53           |  |
|                 | TF1, bits                                                                                                   | 1x39                    | 1x53           |  |
|                 | TF2, bits                                                                                                   | 1x42                    | N/A            |  |
|                 | TTI, ms                                                                                                     | 20                      | 20             |  |
|                 | Coding type                                                                                                 | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit                                                                                                    | 12                      | N/A            |  |
|                 | Max number of bits/TTI after channel coding                                                                 | 186                     | 183            |  |
|                 | Uplink: Max number of bits/radio frame before rate matching                                                 | 93                      | 92             |  |
|                 | RM attribute                                                                                                | 180-220                 | 170-210        |  |
|                 | In case of usign this alternative, CRC parity bits are of TrBlks are 1 even if there is no data on RAB subf |                         |                |  |

6.10.2.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.2.4.1.1.1.1

#### 6.10.2.4.1.11.1.3 TFCS

| TFCS size | 6                                                  |
|-----------|----------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |

# 6.10.2.4.1.11.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 128  |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 300  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.92 |

6.10.2.4.1.11.2 Downlink

6.10.2.4.1.11.2.1 Transport channel parameters

#### 6.10.2.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher<br>layer | RAB/Signa         | alling RB                            | RAB subflow #1 | RAB subflow #2 |
|-----------------|-------------------|--------------------------------------|----------------|----------------|
| RLC             | Logical ch        | annel type                           | DT             | CH             |
|                 | RLC mode          | 9                                    | TM             | TM             |
|                 | Payload s         | izes, bit                            | 0              | 53             |
|                 |                   |                                      | 39             |                |
|                 |                   |                                      | 42             |                |
|                 | Max data          | rate, bps                            | 47             | 50             |
|                 | TrD PDU I         | header, bit                          |                | )              |
| MAC             | C MAC header, bit |                                      | (              | )              |
|                 | MAC mult          | iplexing                             | N/A            |                |
| Layer 1         | TrCH type         | •                                    | DCH            | DCH            |
|                 | TB sizes,         | bit                                  | 0              | 53             |
|                 |                   |                                      | 39             |                |
|                 |                   |                                      | 42             |                |
|                 | TFS               | TF0, bits                            | 1x0 (note 2)   | 0x53           |
|                 | (note 1)          | TF1, bits                            | 1x39           | 1x53           |
|                 |                   | TF2, bits                            | 1x42           | N/A            |
|                 | TTI, ms           |                                      | 20             | 20             |
|                 | Coding type       | oe                                   | CC 1/3         | CC 1/3         |
|                 | CRC, bit          |                                      | 12             | N/A            |
|                 | Max numb          | per of bits/TTI after channel coding | 186            | 183            |
|                 | RM attribu        | ite                                  | 180-220        | 170-210        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

#### 6.10.2.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.2.4.1.1.2.1.1

#### 6.10.2.4.1.11.2.1.3 TFCS

| TFCS size | 6                                                  |  |
|-----------|----------------------------------------------------|--|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=              |  |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |  |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)  |  |

# 6.10.2.4.1.11.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 256   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 14    |
|          |                  | Number of data bits/frame | 210   |

6.10.2.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.12.1 Uplink

6.10.2.4.1.12.1.1 Transport channel parameters

#### 6.10.2.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB     |
|-----------------|-----------------------------------------------|---------|
| RLC             | Logical channel type                          | DTCH    |
|                 | RLC mode                                      | TM      |
|                 | Payload sizes, bit                            | 576     |
|                 | Max data rate, bps                            | 28800   |
|                 | TrD PDU header, bit                           | 0       |
| MAC             | MAC header, bit                               | 0       |
|                 | MAC multiplexing                              | N/A     |
| Layer 1         | TrCH type                                     | DCH     |
|                 | TB sizes, bit                                 | 576     |
|                 | TFS TF0, bits                                 | 0x576   |
|                 | TF1, bits                                     | 1x576   |
|                 | TF2, bits                                     | 2x576   |
|                 | TTI, ms                                       | 40      |
|                 | Coding type                                   | TC      |
|                 | CRC, bit                                      | 16      |
|                 | Max number of bits/TTI after channel coding   | 3564    |
|                 | Uplink: Max number of bits/radio frame before | 891     |
|                 | rate matching                                 |         |
|                 | RM attribute                                  | 160-200 |

# 6.10.2.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

# 6.10.2.4.1.12.1.1.3 TFCS

| TFCS size | 6                                                                      |
|-----------|------------------------------------------------------------------------|
| TFCS      | (28.8 kbps RAB, DCCH)=                                                 |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

# 6.10.2.4.1.12.1.2 Physical channel parameters

| DPCH   | Min spreading factor                      | 32   |
|--------|-------------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio frame | 1200 |
|        | Puncturing Limit                          | 0.92 |

6.10.2.4.1.12.2 Downlink

6.10.2.4.1.12.2.1 Transport channel parameters

# 6.10.2.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

| Higher<br>layer | RAB/Sig                                     | nalling RB    | RAB     |
|-----------------|---------------------------------------------|---------------|---------|
| RLC             | Logical o                                   | channel type  | DTCH    |
|                 | RLC mo                                      | de            | TM      |
|                 | Payload                                     | sizes, bit    | 576     |
|                 | Max data                                    | a rate, bps   | 28800   |
|                 | TrD PDU                                     | J header, bit | 0       |
| MAC             | MAC hea                                     | ader, bit     | 0       |
|                 | MAC mu                                      | ıltiplexing   | N/A     |
| Layer 1         | TrCH type                                   |               | DCH     |
|                 | TB sizes, bit                               |               | 576     |
|                 | TFS                                         | TF0, bits     | 0x576   |
|                 |                                             | TF1, bits     | 1x576   |
|                 |                                             | TF2, bits     | 2x576   |
|                 | TTI, ms                                     |               | 40      |
|                 | Coding t                                    | ype           | TC      |
|                 | CRC, bit                                    |               | 16      |
|                 | Max number of bits/TTI after channel coding |               | 3564    |
|                 | RM attribute                                |               | 160-200 |

# 6.10.2.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.12.2.1.3 TFCS

| TFCS size | 6                                                                      |
|-----------|------------------------------------------------------------------------|
| TFCS      | (28.8 kbps RAB, DCCH)=                                                 |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

# 6.10.2.4.1.12.2.2 Physical channel parameters

| DPCH     | DTX position                   |                           | Flexible |
|----------|--------------------------------|---------------------------|----------|
| Downlink | Spreading factor               |                           | 64       |
|          | DPCCH Number of TFCI bits/slot |                           | 8        |
|          |                                | Number of TPC bits/slot   | 4        |
|          |                                | Number of Pilot bits/slot | 8        |
|          | DPDCH                          | Number of data bits/slot  | 60       |
|          |                                | Number of data bits/frame | 900      |

6.10.2.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.13.1 Uplink

6.10.2.4.1.13.1.1 Transport channel parameters

#### 6.10.2.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                             |           | RAB               |
|-----------------|-----------------------------------------------|-----------|-------------------|
| RLC             | Logical channel type                          |           | DTCH              |
|                 | RLC mode                                      |           | TM                |
|                 | Payload sizes, b                              | pit       | 640               |
|                 | Max data rate, b                              | pps       | 64000             |
|                 | TrD PDU heade                                 | r, bit    | 0                 |
| MAC             | MAC header, bit                               | t         | 0                 |
|                 | MAC multiplexing                              |           | N/A               |
| Layer 1         | TrCH type                                     |           | DCH               |
|                 | TB sizes, bit                                 |           | 640               |
|                 | TFS                                           | TF0, bits | 0x640             |
|                 |                                               | TF1, bits | 2x640(alt. 4x640) |
|                 | TTI, ms                                       |           | 20(alt. 40)       |
|                 | Coding type                                   |           | TC                |
|                 | CRC, bit                                      |           | 16                |
|                 | Max number of bits/TTI after channel coding   |           | 3948(alt. 7884)   |
|                 | Uplink: Max number of bits/radio frame before |           | 1974(alt. 1971)   |
|                 | rate matching                                 |           |                   |
|                 | RM attribute                                  |           | 150-195           |

# 6.10.2.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

# 6.10.2.4.1.13.1.1.3 TFCS

| TFCS size | 4                                                                  |
|-----------|--------------------------------------------------------------------|
| TFCS      | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### 6.10.2.4.1.13.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.88 |

6.10.2.4.1.13.2 Downlink

6.10.2.4.1.13.2.1 Transport channel parameters

# 6.10.2.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                           |           | RAB               |
|-----------------|---------------------------------------------|-----------|-------------------|
| RLC             | Logical channel type                        |           | DTCH              |
|                 | RLC mode                                    |           | TM                |
|                 | Payload sizes, bit                          |           | 640               |
|                 | Max data rate, bps                          |           | 64000             |
|                 | TrD PDU header, bit                         |           | 0                 |
| MAC             | MAC header, bit                             |           | 0                 |
|                 | MAC multiplexing                            |           | N/A               |
| Layer 1         | TrCH type                                   |           | DCH               |
|                 | TB sizes, bit                               |           | 640               |
|                 | TFS 7                                       | ΓF0, bits | 0x640             |
|                 |                                             | ΓF1, bits | 2x640(alt. 4x640) |
|                 | TTI, ms                                     |           | 20(alt. 40)       |
|                 | Coding type                                 |           | TC                |
|                 | CRC, bit                                    |           | 16                |
|                 | Max number of bits/TTI after channel coding |           | 3948(alt. 7884)   |
|                 | RM attribute                                |           | 150-195           |

# 6.10.2.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.13.2.1.3 TFCS

| TFCS size | 4                                                                  |
|-----------|--------------------------------------------------------------------|
| TFCS      | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

# 6.10.2.4.1.13.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.14.1 Uplink

6.10.2.4.1.14.1.1 Transport channel parameters

#### 6.10.2.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

| Higher  | RAB/Signalling RB                             | RAB               |
|---------|-----------------------------------------------|-------------------|
| layer   |                                               |                   |
| RLC     | Logical channel type                          | DTCH              |
|         | RLC mode                                      | TM                |
|         | Payload sizes, bit                            | 640               |
|         | Max data rate, bps                            | 32000             |
|         | TrD PDU header, bit                           | 0                 |
| MAC     | MAC header, bit                               | 0                 |
|         | MAC multiplexing                              | N/A               |
| Layer 1 | TrCH type                                     | DCH               |
|         | TB sizes, bit                                 | 640               |
|         | TFS TF0, bits                                 | 0x640             |
|         | TF1, bits                                     | 1x640(alt. 2x640) |
|         | TTI, ms                                       | 20(alt. 40)       |
|         | Coding type                                   | TC                |
|         | CRC, bit                                      | 16                |
|         | Max number of bits/TTI after channel coding   | 1980(alt. 3948)   |
|         | Uplink: Max number of bits/radio frame before | 990(alt. 987)     |
|         | rate matching                                 |                   |
|         | RM attribute                                  | 165-210           |

# 6.10.2.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

# 6.10.2.4.1.13.1.1.3 TFCS

| TFCS size | 4                                                                  |
|-----------|--------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### 6.10.2.4.1.14.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.80 |

6.10.2.4.1.14.2 Downlink

6.10.2.4.1.14.2.1 Transport channel parameters

# 6.10.2.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB               |
|-----------------|---------------------------------------------|-------------------|
| RLC             | Logical channel type                        | DTCH              |
|                 | RLC mode                                    | TM                |
|                 | Payload sizes, bit                          | 640               |
|                 | Max data rate, bps                          | 32000             |
|                 | TrD PDU header, bit                         | 0                 |
| MAC             | MAC header, bit                             | 0                 |
|                 | MAC multiplexing                            | N/A               |
| Layer 1         | TrCH type                                   | DCH               |
|                 | TB sizes, bit                               | 640               |
|                 | TFS TF0, bits                               | 0x640             |
|                 | TF1, bits                                   | 1x640(alt. 2x640) |
|                 | TTI, ms                                     | 20(alt. 40)       |
|                 | Coding type                                 | TC                |
|                 | CRC, bit                                    | 16                |
|                 | Max number of bits/TTI after channel coding | 1980(alt. 3948)   |
|                 | RM attribute                                | 165-210           |

# 6.10.2.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.14.2.1.3 TFCS

| TFCS size | 4                                                                  |
|-----------|--------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

# 6.10.2.4.1.14.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.15.1 Uplink

6.10.2.4.1.15.1.1 Transport channel parameters

# 6.10.2.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

| Higher  | RAB/Signalling RB                             | RAB     |
|---------|-----------------------------------------------|---------|
| layer   |                                               |         |
| RLC     | Logical channel type                          | DTCH    |
|         | RLC mode                                      | TM      |
|         | Payload sizes, bit                            | 576     |
|         | Max data rate, bps                            | 14400   |
|         | TrD PDU header, bit                           | 0       |
| MAC     | MAC header, bit                               | 0       |
|         | MAC multiplexing                              | N/A     |
| Layer 1 | TrCH type                                     | DCH     |
|         | TB sizes, bit                                 | 576     |
|         | TFS TF0, bits                                 | 0x576   |
|         | TF1, bits                                     | 1x576   |
|         | TTI, ms                                       | 40      |
|         | Coding type                                   | TC      |
|         | CRC, bit                                      | 16      |
|         | Max number of bits/TTI after channel coding   | 1788    |
|         | Uplink: Max number of bits/radio frame before | 447     |
|         | rate matching                                 |         |
|         | RM attribute                                  | 145-185 |

# 6.10.2.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

# 6.10.2.4.1.15.1.1.3 TFCS

| TFCS size | 4                                                                    |
|-----------|----------------------------------------------------------------------|
| TFCS      | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### 6.10.2.4.1.15.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.88 |

6.10.2.4.1.15.2 Downlink

6.10.2.4.1.15.2.1 Transport channel parameters

# 6.10.2.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | TM      |
|                 | Payload sizes, bit                          | 576     |
|                 | Max data rate, bps                          | 14400   |
|                 | TrD PDU header, bit                         | 0       |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 576     |
|                 | TFS TF0, bits                               | 0x576   |
|                 | TF1, bits                                   | 1x576   |
|                 | TTI, ms                                     | 40      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 1788    |
|                 | RM attribute                                | 145-185 |

6.10.2.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.15.2.1.3 TFCS

| TFCS size | 4                                                                    |
|-----------|----------------------------------------------------------------------|
| TFCS      | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

# 6.10.2.4.1.15.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 128      |
|          | DPCCH            | Number of TFCI bits/slot  | 2        |
|          |                  | Number of TPC bits/slot   | 2        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 28       |
|          |                  | Number of data bits/frame | 420      |

6.10.2.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.2.4.1.16.1 Uplink

6.10.2.4.1.16.1.1 Transport channel parameters

#### 6.10.2.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                                           | RAB     |
|-----------------|-------------------------------------------------------------|---------|
| RLC             | Logical channel type                                        | DTCH    |
|                 | RLC mode                                                    | TM      |
|                 | Payload sizes, bit                                          | 576     |
|                 | Max data rate, bps                                          | 28800   |
|                 | TrD PDU header, bit                                         | 0       |
| MAC             | MAC header, bit                                             | 0       |
|                 | MAC multiplexing                                            | N/A     |
| Layer 1         | TrCH type                                                   | DCH     |
|                 | TB sizes, bit                                               | 576     |
|                 | TFS TF0, bits                                               | 0x576   |
|                 | TF1, bits                                                   | 1x576   |
|                 | TF2, bits                                                   | 2x576   |
|                 | TTI, ms                                                     | 40      |
|                 | Coding type                                                 | TC      |
|                 | CRC, bit                                                    | 16      |
|                 | Max number of bits/TTI after channel coding                 | 3564    |
|                 | Uplink: Max number of bits/radio frame before rate matching | 891     |
|                 | RM attribute                                                | 135-175 |

# 6.10.2.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.16.1.1.3 TFCS

| TFCS size | 6                                                                      |
|-----------|------------------------------------------------------------------------|
| TFCS      | (28.8kbps RAB, DCCH)=                                                  |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

# 6.10.2.4.1.16.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.16.2 Downlink

6.10.2.4.1.16.2.1 Transport channel parameters

# 6.10.2.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

| Higher<br>layer | RAB/Sig                                     | gnalling RB                                    | RAB                     |
|-----------------|---------------------------------------------|------------------------------------------------|-------------------------|
| RLC             | Logical                                     | channel type                                   | DTCH                    |
|                 | RLC mo                                      | ode                                            | TM                      |
|                 | Payload                                     | sizes, bit                                     | 576                     |
|                 | Max data                                    | a rate, bps                                    | 28800                   |
|                 | TrD PDU                                     | J header, bit                                  | 0                       |
| MAC             | MAC header, bit                             |                                                | 0                       |
|                 | MAC multiplexing                            |                                                | N/A                     |
| Layer 1         | TrCH type                                   |                                                | DCH                     |
|                 | TB sizes, bit                               |                                                | 576                     |
|                 | TFS                                         | TF0, bits                                      | 0x576 (alt. 1x0) (note) |
|                 |                                             | TF1, bits                                      | 1x576                   |
|                 |                                             | TF2, bits                                      | 2x576                   |
|                 | TTI, ms                                     |                                                | 40                      |
|                 | Coding type                                 |                                                | TC                      |
|                 | CRC, bit                                    |                                                | 16                      |
|                 | Max number of bits/TTI after channel coding |                                                | 3564                    |
|                 | RM attribute                                |                                                | 135-175                 |
| NOTE:           | Alternative                                 | 1x0 is used to have CRC present in all transpo | rt formats.             |

# 6.10.2.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.16.2.1.3 TFCS

| TFCS size | 6                                                                      |
|-----------|------------------------------------------------------------------------|
| TFCS      | (28.8kbps RAB, DCCH)=                                                  |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

# 6.10.2.4.1.16.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.17.1 Uplink

6.10.2.4.1.17.1.1 Transport channel parameters

#### 6.10.2.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                                           | RAB   |
|-----------------|-------------------------------------------------------------|-------|
| RLC             | Logical channel type                                        | DTCH  |
|                 | RLC mode                                                    | TM    |
|                 | Payload sizes, bit                                          | 576   |
|                 | Max data rate, bps                                          | 57600 |
|                 | TrD PDU header, bit                                         | 0     |
| MAC             | MAC header, bit                                             | 0     |
|                 | MAC multiplexing                                            | N/A   |
| Layer 1         | TrCH type                                                   | DCH   |
|                 | TB sizes, bit                                               | 576   |
|                 | TFS TF0, bits                                               | 0x576 |
|                 | TF1, bits                                                   | 1x576 |
|                 | TF2, bits                                                   | 2x576 |
|                 | TF3, bits                                                   | 3x576 |
|                 | TF4, bits                                                   | 4x576 |
|                 | TTI, ms                                                     | 40    |
|                 | Coding type                                                 | TC    |
|                 | CRC, bit                                                    | 16    |
|                 | Max number of bits/TTI after channel coding                 | 7116  |
|                 | Uplink: Max number of bits/radio frame before rate matching | 1779  |

# 6.10.2.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

# 6.10.2.4.1.17.1.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (57.6 kbps RAB, DCCH)=                                      |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

# 6.10.2.4.1.17.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.17.2 Downlink

6.10.2.4.1.17.2.1 Transport channel parameters

# 6.10.2.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | TM      |
|                 | Payload sizes, bit                          | 576     |
|                 | Max data rate, bps                          | 57600   |
|                 | TrD PDU header, bit                         | 0       |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 576     |
|                 | TFS TF0, bits                               | 0x576   |
|                 | TF1, bits                                   | 1x576   |
|                 | TF2, bits                                   | 2x576   |
|                 | TF3, bits                                   | 3x576   |
|                 | TF4, bits                                   | 4x576   |
|                 | TTI, ms                                     | 40      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 7116    |
|                 | RM attribute                                | 125-165 |

# 6.10.2.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.17.2.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (57.6 kbps RAB, DCCH)=                                      |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

#### 6.10.2.4.1.17.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

| 6.10.2.4.1.18     | Void                                                                                    |
|-------------------|-----------------------------------------------------------------------------------------|
| 6.10.2.4.1.19     | Void                                                                                    |
| 6.10.2.4.1.20     | Void                                                                                    |
| 6.10.2.4.1.21     | Void                                                                                    |
| 6.10.2.4.1.22     | Void                                                                                    |
| 6.10.2.4.1.23     | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH |
| 6.10.2.4.1.23.1   | Uplink                                                                                  |
| 6.10.2.4.1.23.1.1 | Transport channel parameters                                                            |

6.10.2.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB              |
|-----------------|-----------------------------------------------|------------------|
| RLC             | Logical channel type                          | DTCH             |
|                 | RLC mode                                      | AM               |
|                 | Payload sizes, bit                            | 320              |
|                 | Max data rate, bps                            | 32000            |
|                 | AMD PDU header, bit                           | 16               |
| MAC             | MAC header, bit                               | 0                |
|                 | MAC multiplexing                              | N/A              |
| Layer 1         | TrCH type                                     | DCH              |
|                 | TB sizes, bit                                 | 336              |
|                 | TFS TF0, bits                                 | 0x336            |
|                 | TF1, bits                                     | 1x336            |
|                 | TF2, bits                                     | 2x336 (alt. N/A) |
|                 | TTI, ms                                       | 20 (alt. 10)     |
|                 | Coding type                                   | TC (alt. CC 1/3) |
|                 | CRC, bit                                      | 16               |
|                 | Max number of bits/TTI after channel coding   | 2124 (alt. 1080) |
|                 | Uplink: Max number of bits/radio frame before | 1062 (alt. 1080) |
|                 | rate matching                                 |                  |
|                 | RM attribute                                  | 135-175          |

# 6.10.2.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

# 6.10.2.4.1.23.1.1.3 TFCS

| TFCS size | 6 (alt. 4)                                                             |
|-----------|------------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)=                                                   |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1))                  |

# 6.10.2.4.1.23.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.88 |

6.10.2.4.1.23.2 Downlink

6.10.2.4.1.23.2.1 Transport channel parameters

# 6.10.2.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB              |
|-----------------|---------------------------------------------|------------------|
| RLC             | Logical channel type                        | DTCH             |
|                 | RLC mode                                    | AM               |
|                 | Payload sizes, bit                          | 320              |
|                 | Max data rate, bps                          | 8000             |
|                 | AMD PDU header, bit                         | 16               |
| MAC             | MAC header, bit                             | 0                |
|                 | MAC multiplexing                            | N/A              |
| Layer 1         | TrCH type                                   | DCH              |
|                 | TB sizes, bit                               | 336              |
|                 | TFS TF0, bits                               | 0x336            |
|                 | TF1, bits                                   | 1x336            |
|                 | TTI, ms                                     | 40               |
|                 | Coding type                                 | TC (alt. CC 1/3) |
|                 | CRC, bit                                    | 16               |
|                 | Max number of bits/TTI after channel coding | 1068 (alt. 1080) |
|                 | RM attribute                                | 135-175          |

# 6.10.2.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.23.2.1.3 TFCS

| TFCS size | 4                                                                 |
|-----------|-------------------------------------------------------------------|
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

# 6.10.2.4.1.23.2.2 Physical channel parameters

| DPCH     | DTX position                   |                           | Flexible |
|----------|--------------------------------|---------------------------|----------|
| Downlink | Spreading factor               |                           | 128      |
|          | DPCCH Number of TFCI bits/slot |                           | 2        |
|          |                                | Number of TPC bits/slot   | 2        |
|          |                                | Number of Pilot bits/slot | 4        |
|          | DPDCH                          | Number of data bits/slot  | 32       |
|          |                                | Number of data bits/frame | 480      |

6.10.2.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

**DCCH** 

6.10.2.4.1.23a.1 Uplink

6.10.2.4.1.23a.1.1 Transport channel parameters

#### 6.10.2.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB              |
|-----------------|---------------------------------------------|------------------|
| RLC             | Logical channel type                        | DTCH             |
|                 | RLC mode                                    | AM               |
|                 | Payload sizes, bit                          | 320              |
|                 | Max data rate, bps                          | 8000             |
|                 | AMD PDU header, bit                         | 16               |
| MAC             | MAC header, bit                             | 0                |
|                 | MAC multiplexing                            | N/A              |
| Layer 1         | TrCH type                                   | DCH              |
|                 | TB sizes, bit                               | 336              |
|                 | TFS TF0, bits                               | 0x336            |
|                 | TF1, bits                                   | 1x336            |
|                 | TTI, ms                                     | 40               |
|                 | Coding type                                 | CC 1/3 (alt. TC) |
|                 | CRC, bit                                    | 16               |
|                 | Max number of bits/TTI after channel coding | 1080 (alt. 1068) |
|                 | Uplink: Max number of bits/radio frame      | 270 (alt. 267)   |
|                 | before rate matching                        |                  |
|                 | RM attribute                                | 135-175          |

# 6.10.2.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

# 6.10.2.4.1.23a.1.1.3 TFCS

| TFCS size | 4                                              |
|-----------|------------------------------------------------|
| TFCS      | (8 kbps RAB, DCCH)=                            |
|           | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

# 6.10.2.4.1.23a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64  |
|--------|-------------------------------------|-----|
| Uplink | Max number of DPDCH data bits/radio | 600 |
|        | frame                               |     |
|        | Puncturing Limit                    | 1.0 |

6.10.2.4.1.23a.2 Downlink

6.10.2.4.1.23a.2.1 Transport channel parameters

# 6.10.2.4.1.23a.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           |               | RAB              |
|-----------------|---------------------------------------------|---------------|------------------|
| RLC             | Logical c                                   | hannel type   | DTCH             |
|                 | RLC mod                                     | de            | AM               |
|                 | Payload                                     | sizes, bit    | 320              |
|                 | Max data                                    | a rate, bps   | 8000             |
|                 | AMD PD                                      | U header, bit | 16               |
| MAC             | MAC header, bit                             |               | 0                |
|                 | MAC multiplexing                            |               | N/A              |
| Layer 1         | TrCH type                                   |               | DCH              |
|                 | TB sizes, bit                               |               | 336              |
|                 | TFS                                         | TF0, bits     | 0x336            |
|                 |                                             | TF1, bits     | 1x336            |
|                 | TTI, ms                                     |               | 40               |
|                 | Coding type                                 |               | CC 1/3 (alt. TC) |
|                 | CRC, bit                                    |               | 16               |
|                 | Max number of bits/TTI after channel coding |               | 1080 (alt. 1068) |
|                 | RM attrib                                   | oute          | 135-175          |

# 6.10.2.4.1.23a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.23a.2.1.3 TFCS

| TFCS size | 4                                                                 |
|-----------|-------------------------------------------------------------------|
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

# 6.10.2.4.1.23a.2.2 Physical channel parameters

| DPCH     | DTX position                   |                           | Flexible |
|----------|--------------------------------|---------------------------|----------|
| Downlink | Spreading factor               |                           | 128      |
|          | DPCCH Number of TFCI bits/slot |                           | 2        |
|          |                                | Number of TPC bits/slot   | 2        |
|          |                                | Number of Pilot bits/slot | 4        |
|          | DPDCH                          | Number of data bits/slot  | 32       |
|          |                                | Number of data bits/frame | 480      |

6.10.2.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.2.4.1.23b.1 Uplink

6.10.2.4.1.23b.1.1 Transport channel parameters

# 6.10.2.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

| Higher layer | RAB/Sigi                                    | nalling RB                     | RAB     |
|--------------|---------------------------------------------|--------------------------------|---------|
| RLC          | Logical c                                   | hannel type                    | DTCH    |
|              | RLC mod                                     | de                             | AM      |
|              | Payload                                     | sizes, bit                     | 320     |
|              | Max data                                    | rate, bps                      | 16000   |
|              | AMD PD                                      | U header, bit                  | 16      |
| MAC          | MAC hea                                     | ader, bit                      | 0       |
|              | MAC mu                                      | Itiplexing                     | N/A     |
| Layer 1      | TrCH type                                   |                                | DCH     |
|              | TB sizes, bit                               |                                | 336     |
|              | TFS                                         | TF0, bits                      | 0x336   |
|              |                                             | TF1, bits                      | 1x336   |
|              |                                             | TF2, bits                      | 2x336   |
|              | TTI, ms                                     |                                | 40      |
|              | Coding ty                                   | /pe                            | TC      |
|              | CRC, bit                                    |                                | 16      |
|              | Max number of bits/TTI after channel coding |                                | 2124    |
|              |                                             | lax number of bits/radio frame | 531     |
|              |                                             | te matching                    |         |
|              | RM attrib                                   | ute                            | 135-175 |

# 6.10.2.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23b.1.1.3 TFCS

| TFCS size | 6                                                                      |
|-----------|------------------------------------------------------------------------|
| TFCS      | (16 kbps RAB, DCCH)=                                                   |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

# 6.10.2.4.1.23b.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.23b.2 Downlink

6.10.2.4.1.23b.2.1 Transport channel parameters

# 6.10.2.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

| Higher<br>layer | RAB/Sig          | nalling RB                            | RAB     |
|-----------------|------------------|---------------------------------------|---------|
| RLC             | Logical c        | hannel type                           | DTCH    |
|                 | RLC mod          |                                       | AM      |
|                 | Payload          | sizes, bit                            | 320     |
|                 | Max data         | a rate, bps                           | 16000   |
|                 | AMD PD           | U header, bit                         | 16      |
| MAC             | MAC hea          | ader, bit                             | 0       |
|                 | MAC multiplexing |                                       | N/A     |
| Layer 1         | TrCH type        |                                       | DCH     |
|                 | TB sizes         | , bit                                 | 336     |
|                 | TFS              | TF0, bits                             | 0x336   |
|                 |                  | TF1, bits                             | 1x336   |
|                 |                  | TF2, bits                             | 2x336   |
|                 | TTI, ms          |                                       | 40      |
|                 | Coding to        | ype                                   | TC      |
|                 | CRC, bit         |                                       | 16      |
|                 | Max num          | nber of bits/TTI after channel coding | 2124    |
|                 | RM attrib        | oute                                  | 135-175 |

# 6.10.2.4.1.23b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23b.2.1.3 TFCS

| TFCS size | 6                                                                      |
|-----------|------------------------------------------------------------------------|
| TFCS      | (16 kbps RAB, DCCH)=                                                   |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

# 6.10.2.4.1.23b.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 128      |
|          | DPCCH            | Number of TFCI bits/slot  | 2        |
|          |                  | Number of TPC bits/slot   | 2        |
|          |                  | Number of Pilot bits/slot | 4        |
|          | DPDCH            | Number of data bits/slot  | 32       |
|          |                  | Number of data bits/frame | 480      |

6.10.2.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.2.4.1.23c.1 Uplink

6.10.2.4.1.23c.1.1 Transport channel parameters

#### 6.10.2.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| Higher<br>layer | RAB/Sig                                                     | nalling RB    | RAB     |
|-----------------|-------------------------------------------------------------|---------------|---------|
| RLC             | Logical                                                     | channel type  | DTCH    |
|                 | RLC mo                                                      |               | AM      |
|                 | Payload                                                     | sizes, bit    | 320     |
|                 | Max data                                                    | a rate, bps   | 32000   |
|                 | AMD PD                                                      | U header, bit | 16      |
| MAC             | MAC he                                                      | ader, bit     | 0       |
|                 | MAC mu                                                      | ıltiplexing   | N/A     |
| Layer 1         | TrCH typ                                                    | oe e          | DCH     |
|                 | TB sizes, bit                                               |               | 336     |
|                 | TFS                                                         | TF0, bits     | 0x336   |
|                 |                                                             | TF1, bits     | 1x336   |
|                 |                                                             | TF2, bits     | 2x336   |
|                 |                                                             | TF3, bits     | 3x336   |
|                 |                                                             | TF4, bits     | 4x336   |
|                 | TTI, ms                                                     |               | 40      |
|                 | Coding type                                                 |               | TC      |
|                 | CRC, bit                                                    |               | 16      |
|                 | Max number of bits/TTI after channel coding                 |               | 4236    |
|                 | Uplink: Max number of bits/radio frame before rate matching |               | 1059    |
|                 | RM attrib                                                   |               | 135-175 |

# 6.10.2.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23c.1.1.3 TFCS

| TFCS size | 10                                                                                                                                |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

#### 6.10.2.4.1.23c.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.88 |

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

6.10.2.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| Higher<br>layer | RAB/Sig                                     | nalling RB     | RAB     |
|-----------------|---------------------------------------------|----------------|---------|
| RLC             | Logical                                     | channel type   | DTCH    |
|                 | RLC mo                                      | de             | AM      |
|                 | Payload                                     | sizes, bit     | 320     |
|                 | Max data                                    | a rate, bps    | 32000   |
|                 | AMD PD                                      | OU header, bit | 16      |
| MAC             | MAC he                                      | ader, bit      | 0       |
|                 | MAC multiplexing                            |                | N/A     |
| Layer 1         | TrCH type                                   |                | DCH     |
|                 | TB sizes, bit                               |                | 336     |
|                 | TFS                                         | TF0, bits      | 0x336   |
|                 |                                             | TF1, bits      | 1x336   |
|                 |                                             | TF2, bits      | 2x336   |
|                 |                                             | TF3, bits      | 3x336   |
|                 |                                             | TF4, bits      | 4x336   |
|                 | TTI, ms                                     |                | 40      |
|                 | Coding type                                 |                | TC      |
|                 | CRC, bit                                    |                | 16      |
|                 | Max number of bits/TTI after channel coding |                | 4236    |
|                 | RM attrib                                   | oute           | 135-175 |

# 6.10.2.4.1.23c.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23c.2.1.3 TFCS

| TFCS size | 10                                                                                      |
|-----------|-----------------------------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)=                                                                    |
|           | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), |
|           | (TF3,TF1), (TF4,TF1)                                                                    |

#### 6.10.2.4.1.23c.2.2 Physical channel parameters

| DPCH     | DTX positi                     | on                        | Flexible |
|----------|--------------------------------|---------------------------|----------|
| Downlink |                                |                           |          |
|          | Spreading factor               |                           | 64       |
|          | DPCCH Number of TFCI bits/slot |                           | 8        |
|          |                                | Number of TPC bits/slot   | 4        |
|          |                                | Number of Pilot bits/slot | 8        |
|          | DPDCH                          | Number of data bits/slot  | 60       |
|          |                                | Number of data bits/frame | 900      |

6.10.2.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4

kbps SRBs for DCCH

6.10.2.4.1.23d.1 Uplink

6.10.2.4.1.23d.1.1 Transport channel parameters

# 6.10.2.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                           | RAB     |
|-----------------|-------------------------------------------------------------|---------|
| RLC             | Logical channel type                                        | DTCH    |
|                 | RLC mode                                                    | AM      |
|                 | Payload sizes, bit                                          | 320     |
|                 | Max data rate, bps                                          | 32000   |
|                 | AMD PDU header, bit                                         | 16      |
| MAC             | MAC header, bit                                             | 0       |
|                 | MAC multiplexing                                            | N/A     |
| Layer 1         | TrCH type                                                   | DCH     |
|                 | TB sizes, bit                                               | 336     |
|                 | TFS TF0, bits                                               | 0x336   |
|                 | TF1, bits                                                   | 1x336   |
|                 | TF2, bits                                                   | 2x336   |
|                 | TTI, ms                                                     | 20      |
|                 | Coding type                                                 | TC      |
|                 | CRC, bit                                                    | 16      |
|                 | Max number of bits/TTI after channel coding                 | 2124    |
|                 | Uplink: Max number of bits/radio frame before rate matching | 1062    |
|                 | RM attribute                                                | 135-175 |

# 6.10.2.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23d.1.1.3 TFCS

| TFCS size | 6                                                                |
|-----------|------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)=                                             |
|           | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |

#### 6.10.2.4.1.23d.1.2 Physical channel parameters

|   | DPCH   | Min spreading factor                | 32   |
|---|--------|-------------------------------------|------|
|   | Uplink | Max number of DPDCH data bits/radio | 1200 |
|   |        | frame                               |      |
| L |        | Puncturing Limit                    | 0.88 |

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6.10.2.4.1.23d.2 Downlink

6.10.2.4.1.23d.2.1 Transport channel parameters

# 6.10.2.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| Higher<br>layer | RAB/Sig                                     | nalling RB    | RAB     |
|-----------------|---------------------------------------------|---------------|---------|
| RLC             | Logical o                                   | channel type  | DTCH    |
|                 | RLC mo                                      | de            | AM      |
|                 | Payload                                     | sizes, bit    | 320     |
|                 |                                             | a rate, bps   | 32000   |
|                 | AMD PD                                      | U header, bit | 16      |
| MAC             | MAC header, bit                             |               | 0       |
|                 | MAC multiplexing                            |               | N/A     |
| Layer 1         | TrCH type                                   |               | DCH     |
| -               | TB sizes, bit                               |               | 336     |
|                 | TFS                                         | TF0, bits     | 0x336   |
|                 |                                             | TF1, bits     | 1x336   |
|                 |                                             | TF2, bits     | 2x336   |
|                 | TTI, ms                                     |               | 20      |
|                 | Coding type                                 |               | TC      |
|                 | CRC, bit                                    |               | 16      |
|                 | Max number of bits/TTI after channel coding |               | 2124    |
|                 | RM attrib                                   | oute          | 135-175 |

# 6.10.2.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23d.2.1.3 TFCS

| TFCS size | 6                                                                |
|-----------|------------------------------------------------------------------|
| TFCS      | (32 kbps RAB, DCCH)=                                             |
|           | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |

#### 6.10.2.4.1.23d.2.2 Physical channel parameters

| DPCH     | DTX position     | on                        | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink |                  |                           |          |
|          | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.24 Void

6.10.2.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.2.4.1.25.1 Uplink

See clause 6.10.2.4.1.23.1.

6.10.2.4.1.25.2 Downlink

6.10.2.4.1.25.2.1 Transport channel parameters

# 6.10.2.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 64000   |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TF1, bits                                   | 1x336   |
|                 | TF2, bits                                   | 2x336   |
|                 | TF3, bits                                   | 3x336   |
|                 | TF4, bits                                   | 4x336   |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 4236    |
|                 | RM attribute                                | 130-170 |

# 6.10.2.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.25.2.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (64 kbps RAB, DCCH)=                                        |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

#### 6.10.2.4.1.25.2.2 Physical channel parameters

| DPCH     | DTX posit        | ion                       | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.2.4.1.26.1 Uplink

6.10.2.4.1.26.1.1 Transport channel parameters

#### 6.10.2.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

| Higher<br>layer | RAB/Sig                                                     | nalling RB    | RAB     |
|-----------------|-------------------------------------------------------------|---------------|---------|
| RLC             | Logical channel type                                        |               | DTCH    |
|                 | RLC mod                                                     | de            | AM      |
|                 | Payload                                                     | sizes, bit    | 320     |
|                 | Max data                                                    | a rate, bps   | 64000   |
|                 | AMD PD                                                      | U header, bit | 16      |
| MAC             | MAC hea                                                     | ader, bit     | 0       |
|                 | MAC mu                                                      | Itiplexing    | N/A     |
| Layer 1         | TrCH type                                                   |               | DCH     |
|                 | TB sizes, bit                                               |               | 336     |
|                 | TFS                                                         | TF0, bits     | 0x336   |
|                 |                                                             | TF1, bits     | 1x336   |
|                 |                                                             | TF2, bits     | 2x336   |
|                 |                                                             | TF3, bits     | 3x336   |
|                 |                                                             | TF4, bits     | 4x336   |
|                 | TTI, ms                                                     |               | 20      |
|                 | Coding type                                                 |               | TC      |
|                 | CRC, bit                                                    |               | 16      |
|                 | Max number of bits/TTI after channel coding                 |               | 4236    |
|                 | Uplink: Max number of bits/radio frame before rate matching |               | 2118    |
|                 | RM attrib                                                   | oute          | 130-170 |

# 6.10.2.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.26.1.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (64 kbps RAB, DCCH)=                                        |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

#### 6.10.2.4.1.26.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.26.2 Downlink

See clause 6.10.2.4.1.25.2.

6.10.2.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.2.4.1.27.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.27.2 Downlink

6.10.2.4.1.27.2.1 Transport channel parameters

# 6.10.2.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 128000  |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TF1, bits                                   | 1x336   |
|                 | TF2, bits                                   | 2x336   |
|                 | TF3, bits                                   | 4 x336  |
|                 | TF4, bits                                   | 8 x336  |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 8460    |
|                 | RM attribute                                | 120-160 |

# 6.10.2.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.27.2.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (128 kbps RAB, DCCH)=                                       |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

#### 6.10.2.4.1.27.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 16       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 288      |
|          |                  | Number of data bits/frame | 4320     |

6.10.2.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.2.4.1.28.1 Uplink

6.10.2.4.1.28.1.1 Transport channel parameters

6.10.2.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                  | RAB            |
|-----------------|----------------------------------------------------|----------------|
| RLC             | Logical channel type                               | DTCH           |
|                 | RLC mode                                           | AM             |
|                 | Payload sizes, bit                                 | 320            |
|                 | Max data rate, bps                                 | 128000         |
|                 | AMD PDU header, bit                                | 16             |
| MAC             | MAC header, bit                                    | 0              |
|                 | MAC multiplexing                                   | N/A            |
| Layer 1         | TrCH type                                          | DCH            |
|                 | TB sizes, bit                                      | 336            |
|                 | TFS TF0, bits                                      | 0x336          |
|                 | TF1, bits                                          | 1x336          |
|                 | TF2, bits                                          | 2x336          |
|                 | TF3, bits                                          | 4 x336         |
|                 | TF4, bits                                          | 8 x336         |
|                 | TTI, ms                                            | 20             |
|                 | Coding type                                        | TC             |
|                 | CRC, bit                                           | 16             |
|                 | Max number of bits/TTI after channel               | el coding 8460 |
|                 | Uplink: Max number of bits/radio fra rate matching | me before 4230 |
|                 | RM attribute                                       | 120-160        |

# 6.10.2.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.28.1.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (128 kbps RAB, DCCH)=                                       |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

#### 6.10.2.4.1.28.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 8    |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 4800 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.96 |

6.10.2.4.1.28.2 Downlink

See clause 6.10.2.4.1.27.2.

6.10.2.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.2.4.1.29.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.29.2 Downlink

6.10.2.4.1.29.2.1 Transport channel parameters

# 6.10.2.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

| Higher       | RAB/Signalling RB                           |                | RAB     |
|--------------|---------------------------------------------|----------------|---------|
| layer<br>RLC | Logical                                     | channel type   | DTCH    |
| INLO         | RLC mo                                      |                | AM      |
|              |                                             | I sizes, bit   | 320     |
|              |                                             | a rate, bps    | 144000  |
|              |                                             | OU header, bit | 16      |
| MAC          |                                             | eader, bit     | 0       |
|              |                                             | ultiplexing    | N/A     |
| Layer 1      | TrCH ty                                     |                | DCH     |
|              | TB sizes                                    |                | 336     |
|              | TFS                                         | TF0, bits      | 0x336   |
|              |                                             | TF1, bits      | 1x336   |
|              |                                             | TF2, bits      | 2x336   |
|              |                                             | TF3, bits      | 4 x336  |
|              |                                             | TF4, bits      | 8 x336  |
|              |                                             | TF5, bits      | 9x336   |
|              | TTI, ms                                     |                | 20      |
|              | Coding                                      | type           | TC      |
|              | CRC, bi                                     | t              | 16      |
|              | Max number of bits/TTI after channel coding |                | 9516    |
|              | RM attri                                    | bute           | 140-180 |

6.10.2.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.29.2.1.3 TFCS

| TFCS size | 12                                                                     |
|-----------|------------------------------------------------------------------------|
| TFCS      | (144 kbps RAB, DCCH)=                                                  |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

#### 6.10.2.4.1.29.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 16       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 288      |
|          |                  | Number of data bits/frame | 4320     |

6.10.2.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps

SRBs for DCCH

6.10.2.4.1.30.1 Uplink

6.10.2.4.1.30.1.1 Transport channel parameters

6.10.2.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

| Higher<br>layer | RAB/Sigr                                                    | nalling RB                           | RAB     |
|-----------------|-------------------------------------------------------------|--------------------------------------|---------|
| RLC             | Logical cl                                                  | hannel type                          | DTCH    |
|                 | RLC mod                                                     | de                                   | AM      |
|                 | Payload s                                                   |                                      | 320     |
|                 | Max data                                                    | rate, bps                            | 144000  |
|                 | AMD PDI                                                     | U header, bit                        | 16      |
| MAC             | MAC hea                                                     | der, bit                             | 0       |
|                 | MAC mul                                                     | ltiplexing                           | N/A     |
| Layer 1         | TrCH typ                                                    | e                                    | DCH     |
|                 | TB sizes,                                                   | bit                                  | 336     |
|                 | TFS                                                         | TF0, bits                            | 0x336   |
|                 |                                                             | TF1, bits                            | 1x336   |
|                 |                                                             | TF2, bits                            | 2x336   |
|                 |                                                             | TF3, bits                            | 4 x336  |
|                 |                                                             | TF4, bits                            | 8 x336  |
|                 |                                                             | TF5, bits                            | 9 x336  |
|                 | TTI, ms                                                     |                                      | 20      |
|                 | Coding type                                                 |                                      | TC      |
|                 | CRC, bit                                                    |                                      | 16      |
|                 | Max num                                                     | ber of bits/TTI after channel coding | 9516    |
|                 | Uplink: Max number of bits/radio frame before rate matching |                                      | 4758    |
|                 | RM attrib                                                   | •                                    | 140-180 |

6.10.2.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.30.1.1.3 TFCS

| TFCS size | 12                                                                     |
|-----------|------------------------------------------------------------------------|
| TFCS      | (144 kbps RAB, DCCH)=                                                  |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

#### 6.10.2.4.1.30.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 8    |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 4800 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.30.2 Downlink

See clause 6.10.2.4.1.29.2.

6.10.2.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.31.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.31.2 Downlink

6.10.2.4.1.31.2.1 Transport channel parameters

# 6.10.2.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB               |
|-----------------|---------------------------------------------|-------------------|
| RLC             | Logical channel type                        | DTCH              |
|                 | RLC mode                                    | AM                |
|                 | Payload sizes, bit                          | 320               |
|                 | Max data rate, bps                          | 256000            |
|                 | AMD PDU header, bit                         | 16                |
| MAC             | MAC header, bit                             | 0                 |
|                 | MAC multiplexing                            | N/A               |
| Layer 1         | TrCH type                                   | DCH               |
|                 | TB sizes, bit                               | 336               |
|                 | TFS TF0, bits                               | 0x336             |
|                 | TF1, bits                                   | 1x336             |
|                 | TF2, bits                                   | 2x336             |
|                 | TF3, bits                                   | 4 x336            |
|                 | TF4, bits                                   | 8 x336            |
|                 | TF5, bits                                   | N/A (alt. 12x336) |
|                 | TF6, bits                                   | N/A (alt. 16x336) |
|                 | TTI, ms                                     | 10(alt. 20)       |
|                 | Coding type                                 | TC                |
|                 | CRC, bit                                    | 16                |
|                 | Max number of bits/TTI after channel coding | 8460(alt. 16920)  |
|                 | RM attribute                                | 135-175           |

#### 6.10.2.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.31.2.1.3 TFCS

| TFCS size | 10 (alt.14)                                                                              |  |
|-----------|------------------------------------------------------------------------------------------|--|
| TFCS      | (256 kbps RAB, DCCH)=                                                                    |  |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),                              |  |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)                               |  |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0) |  |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))      |  |

6.10.2.4.1.31.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 8        |
|          | Number od DPDCH  |                           | 1        |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 608      |
|          |                  | Number of data bits/frame | 9120     |

6.10.2.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.2.4.1.32.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.32.2 Downlink

6.10.2.4.1.32.2.1 Transport channel parameters

6.10.2.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB                |
|-----------------|---------------------------------------------|--------------------|
| RLC             | Logical channel type                        | DTCH               |
|                 | RLC mode                                    | AM                 |
|                 | Payload sizes, bit                          | 320                |
|                 | Max data rate, bps                          | 384000             |
|                 | AMD PDU header, bit                         | 16                 |
| MAC             | MAC header, bit                             | 0                  |
|                 | MAC multiplexing                            | N/A                |
| Layer 1         | TrCH type                                   | DCH                |
|                 | TB sizes, bit                               | 336                |
|                 | TFS TF0, bits                               | 0x336              |
|                 | TF1, bits                                   | 1x336              |
|                 | TF2, bits                                   | 2x336              |
|                 | TF3, bits                                   | 4 x336             |
|                 | TF4, bits                                   | 8 x336             |
|                 | TF5, bits                                   | 12x336             |
|                 | TF6, bits                                   | N/A (alt. 16 x336) |
|                 | TF7, bits                                   | N/A (alt. 20 x336) |
|                 | TF8, bits                                   | N/A (alt. 24 x336) |
|                 | TTI, ms                                     | 10(alt. 20)        |
|                 | Coding type                                 | TC                 |
|                 | CRC, bit                                    | 16                 |
|                 | Max number of bits/TTI after channel coding | 12684(alt. 25368)  |
|                 | RM attribute                                | 110-150            |

6.10.2.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.32.2.1.3 TFCS

| TFCS size | 12 (alt.18)                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (384 kbps RAB, DCCH)=                                                                           |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)                          |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)                          |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, |
|           | TF0), (TF8, TF0),                                                                               |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1))                                                                                     |

# 6.10.2.4.1.32.2.2 Physical channel parameters

| DPCH     | DTX position                     |                           | Flexible |
|----------|----------------------------------|---------------------------|----------|
| Downlink | Spreading factor Number of DPDCH |                           | 8        |
|          |                                  |                           | 1        |
|          | DPCCH                            | Number of TFCI bits/slot  | 8        |
|          |                                  | Number of TPC bits/slot   | 8        |
|          |                                  | Number of Pilot bits/slot | 16       |
|          | DPDCH                            | Number of data bits/slot  | 608      |
|          |                                  | Number of data bits/frame | 9120     |

6.10.2.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.33.1 Uplink

See clause 6.10.2.4.1.28.1.

6.10.2.4.1.33.2 Downlink

See clause 6.10.2.4.1.32.2.

6.10.2.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.34.1 Uplink

6.10.2.4.1.34.1.1 Transport channel parameters

## 6.10.2.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB                |
|-----------------|-----------------------------------------------|--------------------|
| RLC             | Logical channel type                          | DTCH               |
|                 | RLC mode                                      | AM                 |
|                 | Payload sizes, bit                            | 320                |
|                 | Max data rate, bps                            | 384000             |
|                 | AMD PDU header, bit                           | 16                 |
| MAC             | MAC header, bit                               | 0                  |
|                 | MAC multiplexing                              | N/A                |
| Layer 1         | TrCH type                                     | DCH                |
|                 | TB sizes, bit                                 | 336                |
|                 | TFS TF0, bits                                 | 0x336              |
|                 | TF1, bits                                     | 1x336              |
|                 | TF2, bits                                     | 2x336              |
|                 | TF3, bits                                     | 4 x336             |
|                 | TF4, bits                                     | 8 x336             |
|                 | TF5, bits                                     | 12x336             |
|                 | TF6, bits                                     | 16x336(alt. N/A)   |
|                 | TF7, bits                                     | 20x336(alt. N/A)   |
|                 | TF8, bits                                     | 24 x336 (alt. N/A) |
|                 | TTI, ms                                       | 20 (alt. 10)       |
|                 | Coding type                                   | TC                 |
|                 | CRC, bit                                      | 16                 |
|                 | Max number of bits/TTI after channel coding   | 25368              |
|                 | Uplink: Max number of bits/radio frame before | 12684              |
|                 | rate matching                                 |                    |
|                 | RM attribute                                  | 110-150            |

# 6.10.2.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.34.1.1.3 TFCS

| TFCS size | 18 (alt.12)                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (384 kbps RAB, DCCH)=                                                                           |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), |
|           | (TF8, TF0),                                                                                     |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1)                                                                                      |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)                    |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1))                         |

# 6.10.2.4.1.34.1.2 Physical channel parameters

| DPCH   | Min spreading factor                      | 4    |
|--------|-------------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio frame | 9600 |
|        | Number of DPDCH                           | 1    |
|        | Puncturing Limit                          | 0.72 |

6.10.2.4.1.34.2 Downlink

See clause 6.10.2.4.1.32.2.

6.10.2.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.2.4.1.35.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.35.2 Downlink

6.10.2.4.1.35.2.1 Transport channel parameters

6.10.2.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

| Higher  | RAB/Signalling RB                           | RAB                 |
|---------|---------------------------------------------|---------------------|
| layer   |                                             |                     |
| RLC     | Logical channel type                        | DTCH                |
|         | RLC mode                                    | AM                  |
|         | Payload sizes, bit                          | 640                 |
|         | Max data rate, bps                          | 2048000             |
|         | AMD PDU header, bit                         | 16                  |
| MAC     | MAC header, bit                             | 0                   |
|         | MAC multiplexing                            | N/A                 |
| Layer 1 | TrCH type                                   | DCH                 |
|         | TB sizes, bit                               | 656                 |
|         | TFS TF0, bits                               | 0x656               |
|         | TF1, bits                                   | 1x656               |
|         | TF2, bits                                   | 2x656               |
|         | TF3, bits                                   | 4 x656              |
|         | TF4, bits                                   | 8 x656              |
|         | TF5, bits                                   | 12x656              |
|         | TF6, bits                                   | 16x656              |
|         | TF7, bits                                   | 20x656              |
|         | TF8, bits                                   | 24x656              |
|         | TF9, bits                                   | 28x656              |
|         | TF10, bits                                  | 32x656              |
|         | TF11, bits                                  | N/A (alt. 36x656)   |
|         | TF12, bits                                  | N/A (alt. 40x656)   |
|         | TF13, bits                                  | N/A (alt. 44x656)   |
|         | TF14, bits                                  | N/A (alt. 48x656)   |
|         | TF15, bits                                  | N/A (alt. 52x656)   |
|         | TF16, bits                                  | N/A (alt. 56x656)   |
|         | TF17, bits                                  | N/A (alt. 60x656)   |
|         | TF18, bits                                  | N/A (alt. 64x656)   |
|         | TTI, ms                                     | 10(alt. 20)         |
|         | Coding type                                 | TC                  |
|         | CRC, bit                                    | 16                  |
|         | Max number of bits/TTI after channel coding | 64575 (alt. 129141) |
|         | RM attribute                                | 130-170             |

6.10.2.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.35.2.1.3 TFCS

| TFCS size | 22 (alt.38)                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (2048 kbps RAB, DCCH)=                                                                          |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), |
|           | (TF8, TF0), (TF9, TF0), (TF10, TF0),                                                            |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1), (TF9, TF1), (TF10, TF1)                                                             |
|           | (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,  |
|           | TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),  |
|           | (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),                                             |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, |
|           | TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0))                                                    |

# 6.10.2.4.1.35.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 4        |
|          | Number of DPCH   |                           | 3        |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 1248     |
|          |                  | Number of data bits/frame | 18720    |

6.10.2.4.1.36 Void
6.10.2.4.1.37 Void
6.10.2.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.38.1 Uplink
6.10.2.4.1.38.1.1 Transport channel parameters
6.10.2.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB
See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.38.1.1.4 TFCS

| TFCS size | 18 (alt. 12)                                                                                 |
|-----------|----------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, DCCH)=                             |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),             |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),             |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),             |
|           | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),             |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),             |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1)              |
|           | (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, |
|           | TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                   |
|           | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),             |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1))             |

## 6.10.2.4.1.38.1.2 Physical channel parameters

| DPCH   | Min spreading factor     | 16   |
|--------|--------------------------|------|
| Uplink | Max number of DPDCH data | 2400 |
|        | bits/radio frame         |      |
|        | Puncturing Limit         | 0.96 |

6.10.2.4.1.38.2 Downlink

6.10.2.4.1.38.2.1 Transport channel parameters

6.10.2.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.23.2.1.1.

6.10.2.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.

## 6.10.2.4.1.38.2.1.4 TFCS

| TFCS size | 12                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)=                   |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),      |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)  |

## 6.10.2.4.1.38.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0

kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38a.1 Uplink

6.10.2.4.1.38a.1.1 Transport channel parameters

6.10.2.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 0       |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | CC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 0       |
|                 | Uplink: Max number of bits/radio frame      | 0       |
|                 | before rate matching                        |         |
|                 | RM attribute                                | 130-170 |

6.10.2.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38a.1.1.4 TFCS

| TFCS size | 6                                                                    |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=      |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)  |

### 6.10.2.4.1.38a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.38a.2 Downlink

6.10.2.4.1.38a.2.1 Transport channel parameters

6.10.2.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 0       |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
| -               | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | CC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 0       |
|                 | RM attribute                                | 130-170 |

6.10.2.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.38a.2.1.4 TFCS

| TFCS size | 6                                                                    |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=      |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)  |

# 6.10.2.4.1.38a.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Fixed |
|----------|--------------|---------------------------|-------|
| Downlink | Spreading    | factor                    | 128   |
|          | DPCCH        | Number of TFCI bits/slot  | 0     |
|          |              | Number of TPC bits/slot   | 2     |
|          |              | Number of Pilot bits/slot | 4     |
|          | DPDCH        | Number of data bits/slot  | 34    |
|          |              | Number of data bits/frame | 510   |

6.10.2.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38b.1 Uplink

6.10.2.4.1.38b.1.1 Transport channel parameters

6.10.2.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 8000    |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TF1, bits                                   | 1x336   |
|                 | TTI, ms                                     | 40      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 1068    |
|                 | Uplink: Max number of bits/radio frame      | 267     |
|                 | before rate matching                        |         |
|                 | RM attribute                                | 135-175 |

6.10.2.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38b.1.1.4 TFCS

| TFCS size | 12                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=     |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),     |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)  |

# 6.10.2.4.1.38b.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.38b.2 Downlink

6.10.2.4.1.38b.2.1 Transport channel parameters

6.10.2.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 8000    |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TF1, bits                                   | 1x336   |
|                 | TTI, ms                                     | 40      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 1068    |
|                 | RM attribute                                | 135-175 |

6.10.2.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.38b.2.1.4 TFCS

| TFCS size | 12                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=     |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|           | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),     |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),     |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)  |

## 6.10.2.4.1.38b.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

6.10.2.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.2.4.1.23c.1.1.1.

6.10.2.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38c.1.1.4 TFCS

| TFCS size | 30                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|           | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF1),         |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), |
|           | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0), |
|           | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),     |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1), |
|           | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1), |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1)  |

### 6.10.2.4.1.38c.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

6.10.2.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.2.4.1.23c.2.1.1.

6.10.2.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.38c.2.1.4 TFCS

| TFCS size | 30                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0), |
|           | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0), |
|           | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0), |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),     |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1), |
|           | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1), |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1)  |

## 6.10.2.4.1.38c.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS

RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

6.10.2.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                                                                                                |               | RAB             | RAB             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|-----------------|
| RLC             | Logical channel type                                                                                                             |               | DTCH            | DTCH            |
|                 | RLC mod                                                                                                                          | de            | AM              | AM              |
|                 | Payload                                                                                                                          | sizes, bit    | 320             | 320             |
|                 | Max data                                                                                                                         | a rate, bps   | 64000           | 64000           |
|                 | AMD PD                                                                                                                           | U header, bit | 16              | 16              |
| MAC             | MAC hea                                                                                                                          | ader, bit     | 4               | 4               |
|                 | MAC mu                                                                                                                           | Itiplexing    | 2 logical chann | el multiplexing |
| Layer 1         | TrCH typ                                                                                                                         | e             | DC              | CH              |
|                 | TB sizes                                                                                                                         | , bit         | 34              | 10              |
|                 | TFS                                                                                                                              | TF0, bits     | 0x3             | 340             |
|                 |                                                                                                                                  | TF1, bits     | 1x3             | 340             |
|                 |                                                                                                                                  | TF2, bits     | 2x3             | 340             |
|                 |                                                                                                                                  | TF3, bits     | 3x3             | 340             |
|                 |                                                                                                                                  | TF4, bits     | 4x3             | 340             |
|                 | TTI, ms                                                                                                                          |               | 20              |                 |
|                 | Coding ty                                                                                                                        |               | TC              |                 |
|                 | CRC, bit  Max number of bits/TTI after channel coding  Uplink: Max number of bits/radio frame before rate matching  RM attribute |               | 16              |                 |
|                 |                                                                                                                                  |               | 4284            |                 |
|                 |                                                                                                                                  |               | 21              | 42              |
|                 |                                                                                                                                  |               |                 |                 |
|                 |                                                                                                                                  |               | 130-            | 170             |

# 6.10.2.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38d.1.1.4 TFCS

| TFCS size | 30                                                                              |
|-----------|---------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)= |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),             |
|           | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),                 |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),             |
|           | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),             |
|           | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),             |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),             |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),                 |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),             |
|           | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),             |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)              |

# 6.10.2.4.1.38d.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.76 |

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

6.10.2.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Sig              | nalling RB                            |                | RAB                            |  |
|-----------------|----------------------|---------------------------------------|----------------|--------------------------------|--|
| RLC             | Logical channel type |                                       | DTCH           | DTCH                           |  |
|                 | RLC mo               | de                                    | AM             | AM                             |  |
|                 | Payload              | sizes, bit                            | 320            | 320                            |  |
|                 | Max dat              | a rate, bps                           | 64000          | 64000                          |  |
|                 | AMD PE               | OU header, bit                        | 16             | 16                             |  |
| MAC             | MAC he               | ader, bit                             | 4              | 4                              |  |
|                 | MAC mu               | ultiplexing                           | 2 logical chan | 2 logical channel multiplexing |  |
| Layer 1         | er 1 TrCH type       |                                       | DCH            |                                |  |
|                 | TB sizes, bit        |                                       | 340            |                                |  |
|                 | TFS                  | 0x340                                 | 0x340          |                                |  |
|                 |                      | 1x340                                 | 1x340          |                                |  |
|                 |                      | 2x340                                 | 2x             | 340                            |  |
|                 |                      | 3x340                                 | 3x340          |                                |  |
|                 |                      | 4x340                                 | 4x             | 340                            |  |
|                 | TTI, ms              |                                       | 20             |                                |  |
|                 | Coding               | type                                  | TC             |                                |  |
|                 | CRC, bi              | t                                     | 16             |                                |  |
|                 | Max nur              | mber of bits/TTI after channel coding | 4284           |                                |  |
|                 | RM attri             | bute                                  | 130            | -170                           |  |

6.10.2.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.38d.2.1.4 TFCS

| TFCS size | 30                                                                              |
|-----------|---------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)= |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),             |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),             |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),             |
|           | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),             |
|           | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),             |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),                 |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),             |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),             |
|           | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),             |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)              |

### 6.10.2.4.1.38d.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.38e Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or

background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38e.1 Uplink

6.10.2.4.1.38e.1.1 Transport channel parameters

6.10.2.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75)

kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.2.4.1.38a.1.1.2.

6.10.2.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.38e.1.1.4 TFCS

| TFCS size | 12                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=     |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF0,TF1)      |

### 6.10.2.4.1.38e.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.38e.2 Downlink

6.10.2.4.1.38e.2.1 Transport channel parameters

6.10.2.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1. 4a.2.1.1.

6.10.2.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB See clause 6.10.2.4.1.38a.2.1.2

6.10.2.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.38e.2.1.4 TFCS

| TFCS size | 12                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=     |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

## 6.10.2.4.1.38e.2.2 Physical channel parameters

| DPCH     | DTX posit        | ion                       | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 128   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 34    |
|          |                  | Number of data bits/frame | 510   |

6.10.2.4.1.38f Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38f.1 Uplink

6.10.2.4.1.38f.1.1 Transport channel parameters

6.10.2.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.38f.1.1.4 TFCS

| TFCS size | 24                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=     |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),     |
|           | (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),     |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)  |

## 6.10.2.4.1.38f.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.38f.2 Downlink

6.10.2.4.1.38f.2.1 Transport channel parameters

6.10.2.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.2.1.2

6.10.2.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38f.2.1.4 TFCS

| TFCS size | 24                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=     |
|           | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),     |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),     |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)  |

## 6.10.2.4.1.38f.2.2 Physical channel parameters

| DPCH     | DTX posit        | ion                       | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.38g Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38g.1 Uplink

6.10.2.4.1.38g.1.1 Transport channel parameters

6.10.2.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.2.4.1.23b.1.1.1.

6.10.2.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38g.1.1.4 TFCS

| TFCS size | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |

### 6.10.2.4.1.38g.1.2 Physical channel parameters

| DPCH             | Min spreading factor                | 32   |
|------------------|-------------------------------------|------|
| Uplink           | Max number of DPDCH data bits/radio | 1200 |
|                  | frame                               |      |
| Puncturing Limit |                                     | 0.88 |

6.10.2.4.1.38g.2 Downlink

6.10.2.4.1.38g.2.1 Transport channel parameters

6.10.2.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.2.4.1.23b.2.1.1.

6.10.2.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.38g.2.1.4 TFCS

| TFCS size | 36                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),         |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),     |
|           | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),     |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), |
|           | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)  |

### 6.10.2.4.1.38g.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Flexible |
|----------|--------------|---------------------------|----------|
| Downlink | Spreading    | g factor                  | 64       |
|          | DPCCH        | Number of TFCI bits/slot  | 8        |
|          |              | Number of TPC bits/slot   | 4        |
|          |              | Number of Pilot bits/slot | 8        |
|          | DPDCH        | Number of data bits/slot  | 60       |
|          |              | Number of data bits/frame | 900      |

6.10.2.4.1.38h Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38h.1 Uplink

6.10.2.4.1.38h.1.1 Transport channel parameters

6.10.2.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.2.4.1.23c.1.1.1.

6.10.2.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38h.1.1.4 TFCS

| TFCS size | 32                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF2,TF0),     |
|           | (TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0), |
|           | (TF4,TF3,TF0,TF1,TF0), (TF3,TF2,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), |
|           | (TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF1,TF1),     |
|           | (TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), |
|           | (TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF3,TF2,TF0,TF0,TF1), |
|           | (TF2,TF1,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1), |
|           | (TF1,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF4,TF1)                         |

### 6.10.2.4.1.38h.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.38h.2 Downlink

6.10.2.4.1.38h.2.1 Transport channel parameters

6.10.2.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.2.4.1.23c.2.1.1.

6.10.2.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.38h.2.1.4 TFCS

| TFCS size      | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF1,TF0), (TF0,TF0,TF2,TF0), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0), (TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF4,TF3,TF0,TF2,TF0), (TF4,TF3,TF0,TF4,TF0), (TF3,TF2,TF0,TF0,TF0), (TF3,TF2,TF0,TF1,TF0), (TF3,TF2,TF0,TF2,TF0), (TF3,TF2,TF0,TF4,TF0), (TF2,TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF4,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1,TF1), |
|                | (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), (TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF4,TF3,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF3,TF2,TF0,TF0,TF1), (TF3,TF2,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF2,TF1,TF0,TF1,TF0,TF1,TF1), (TF2,TF1,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF4,TF1)                                                                                                                                                                                                                                                                                                  |

## 6.10.2.4.1.38h.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.38i Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38i.1 Uplink

6.10.2.4.1.38i.1.1 Transport channel parameters

6.10.2.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.38i.1.1.4 TFCS

| TFCS size | 48                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),     |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), |
|           | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), |
|           | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), |
|           | (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),     |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), |
|           | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), |
|           | (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)  |

# 6.10.2.4.1.38i.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.76 |

6.10.2.4.1.38i.2 Downlink

6.10.2.4.1.38i.2.1 Transport channel parameters

6.10.2.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.38i,2.1.4 TFCS

| TFCS size | 60                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),         |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), |
|           | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), |
|           | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), |
|           | (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), |
|           | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), |
|           | (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),     |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), |
|           | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), |
|           | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), |
|           | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), |
|           | (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), |
|           | (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)  |

# 6.10.2.4.1.38i.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.38j Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

6.10.2.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38j.2.1.4 TFCS

| TFCS size | 60                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=   |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),     |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),     |
|           | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), |
|           | (TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),     |
|           | (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0), |
|           | (TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),     |
|           | (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),     |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),     |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), |
|           | (TF0,TF0,TF2,TF1), (TF1,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),         |
|           | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), |
|           | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), |
|           | (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), |
|           | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), |
|           | (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)  |
|           | (1. 5,1. 2,1. 5,1. 1,1. 1,1. 1,1. 5,1. 5,1. 1,1. 1                   |

# 6.10.2.4.1.38j.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 16       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 288      |
|          |                  | Number of data bits/frame | 4320     |

6.10.2.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.39.1 Uplink

See clause 6.10.2.4.1.38.1.

6.10.2.4.1.39.2 Downlink

6.10.2.4.1.39.2.1 Transport channel parameters

6.10.2.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.39.2.1.4 TFCS

| TFCS size | 30                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),      |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),      |
|           | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),      |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)  |

## 6.10.2.4.1.39.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.40.1 Uplink

6.10.2.4.1.40.1.1 Transport channel parameters

6.10.2.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.40.1.1.4 TFCS

| TFCS size | 30                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),      |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),      |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)  |

## 6.10.2.4.1.40.1.2 Physical channel parameters

| DPCH   | Min spreading factor     | 16   |
|--------|--------------------------|------|
| Uplink | Max number of DPDCH data | 2400 |
|        | bits/radio frame         |      |
|        | Puncturing Limit         | 0.76 |

6.10.2.4.1.40.2 Downlink

See clause 6.10.2.4.1.39.2.

6.10.2.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.41.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.41.2 Downlink

6.10.2.4.1.41.2.1 Transport channel parameters

6.10.2.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.41.2.1.4 TFCS

| TFCS size | 30                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=               |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |
|           | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)  |

### 6.10.2.4.1.41.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 16       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 288      |
|          |                  | Number of data bits/frame | 4320     |

6.10.2.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.42.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.42.2 Downlink

6.10.2.4.1.42.2.1 Transport channel parameters

6.10.2.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB See clause 6.10.2.4.1.31.2.1.1.

6.10.2.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.42.2.1.4 TFCS

| TFCS size | 30 (alt. 42)                                                                      |
|-----------|-----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=                |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),  |
|           | (TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),       |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),  |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),  |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),       |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),  |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),  |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),  |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)   |
|           | (alt. (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),       |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),  |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),  |
|           | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),  |
|           | (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),  |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),       |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),  |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),       |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),  |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)   |
|           | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),  |
|           | (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1))  |

## 6.10.2.4.1.42.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 8        |
|          | Number of DPDCH  |                           | 1        |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 608      |
|          |                  | Number of data bits/frame | 9120     |

6.10.2.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.43.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.43.2 Downlink

6.10.2.4.1.43.2.1 Transport channel parameters

6.10.2.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.2.4.1.32.2.1.1.

6.10.2.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.43.2.1.4 TFCS

| TFCS size | 36 (alt. 54)                                                                                                                                                      |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=                                                                                                |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                                                                                       |
|           | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                                                                                       |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                                                                                  |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                                                                                  |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                                                                                   |
|           | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),                                                                                  |
|           | (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                                                                            |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), |
|           | (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                                                                                            |
|           | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                                                                                       |
|           | (TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                                                                                       |
|           | (TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                                                                                       |
|           | (TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                                                                                        |
|           | (TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)                                                                                        |
|           | (TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),                                                                                       |
|           | (TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)                                                                                        |
|           | (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))                                                                                  |

# 6.10.2.4.1.43.2.2 Physical channel parameters

| DPCH     | DTX posit                               | ion                       | Flexible |
|----------|-----------------------------------------|---------------------------|----------|
| Downlink | vnlink Spreading factor Number of DPDCH |                           | 8        |
|          |                                         |                           | 1        |
|          | DPCCH                                   | Number of TFCI bits/slot  | 8        |
|          |                                         | Number of TPC bits/slot   | 8        |
|          |                                         | Number of Pilot bits/slot | 16       |
|          | DPDCH                                   | Number of data bits/slot  | 608      |
|          |                                         | Number of data bits/frame | 9120     |

6.10.2.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.44.1 Uplink

6.10.2.4.1.44.1.1 Transport channel parameters

6.10.2.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.44.1.1.4 TFCS

| TFCS size | 30                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=               |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |
|           | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)  |

## 6.10.2.4.1.44.1.2 Physical channel parameters

| DPCH   | Min spreading factor     | 8    |
|--------|--------------------------|------|
| Uplink | Max number of DPDCH data | 4800 |
|        | bits/radio frame         |      |
|        | Puncturing Limit         | 0.92 |

6.10.2.4.1.44.2 Downlink

6.10.2.4.1.44.2.1 Transport channel parameters

6.10.2.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.2.4.1.35.2.1.1.

6.10.2.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.44.2.1.4 TFCS

| TFCS size | 66 (alt. 114)                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=                                                                                                     |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),       |
|           | (TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                                                                                             |
|           | (TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),                                                                                             |
|           | (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),                                                                                     |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br> (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),             |
|           | (TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                                                                                             |
|           | (TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                                                                                             |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                                                                                         |
|           | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),                                                                                        |
|           | TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),                                                                                         |
|           | (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),                                                                                        |
|           | (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),<br> (TF0, TF0, TF0, TF9, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1)    |
|           | (TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF10, TF1)                                                                                                 |
|           | (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                                                                                  |
|           | (TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                                                                                             |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),       |
|           | (TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),                                                                                             |
|           | (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0),                                                                                        |
|           | (TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),                                                                                     |
|           | (TF0, TF0, TF1, TF11, TF0), (TF1, TF0, TF0, TF11, TF0), (TF2, TF1, TF1, TF11, TF0), (TF0, TF0, TF0, TF12, TF0), (TF1, TF0, TF0, TF12, TF0), (TF2, TF1, TF1, TF12, TF0), |
|           | (TF0, TF0, TF13, TF0), (TF1, TF0, TF0, TF13, TF0), (TF2, TF1, TF1, TF13, TF0),                                                                                          |
|           | (TF0, TF0, TF0, TF14, TF0), (TF1, TF0, TF0, TF14, TF0), (TF2, TF1, TF1, TF14, TF0),                                                                                     |
|           | (TF0, TF0, TF0, TF15, TF0), (TF1, TF0, TF0, TF15, TF0), (TF2, TF1, TF1, TF15, TF0),                                                                                     |
|           | (TF0, TF0, TF0, TF16, TF0), (TF1, TF0, TF0, TF16, TF0), (TF2, TF1, TF1, TF16, TF0),                                                                                     |
|           | (TF0, TF0, TF0, TF17, TF0), (TF1, TF0, TF0, TF17, TF0), (TF2, TF1, TF1, TF17, TF0), (TF0, TF0, TF0, TF18, TF0), (TF1, TF0, TF0, TF18, TF0), (TF2, TF1, TF1, TF18, TF0), |
|           | (TF0, TF0, TF0, TF16, TF0), (TF1, TF0, TF0, TF16, TF0), (TF2, TF1, TF1, TF16, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF1),                                              |
|           | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                                                                                             |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                                                                                        |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                                                                                        |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),                                                                                        |
|           | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),       |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF1), (TF0, TF1), (TF1, TF1, TF1, TF1, TF1),                                               |
|           | (TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),                                                                                             |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1),                                                                                             |
|           | (TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF10, TF1), (TF2, TF1, TF1, TF10, TF1),                                                                                          |
|           | (TF0, TF0, TF0, TF11, TF1), (TF1, TF0, TF0, TF11, TF1), (TF2, TF1, TF1, TF11, TF1),                                                                                     |
|           | (TF0, TF0, TF1, TF12, TF1), (TF1, TF0, TF0, TF12, TF1), (TF2, TF1, TF1, TF12, TF1), (TF0, TF0, TF0, TF13, TF1), (TF1, TF0, TF0, TF13, TF1), (TF2, TF1, TF1, TF13, TF1), |
|           | (TF0, TF0, TF1, TF13, TF1), (TF1, TF0, TF0, TF13, TF1), (TF2, TF1, TF1, TF14, TF1),                                                                                     |
|           | (TF0, TF0, TF15, TF1), (TF1, TF0, TF0, TF15, TF1), (TF2, TF1, TF1, TF15, TF1),                                                                                          |
|           | (TF0, TF0, TF16, TF1), (TF1, TF0, TF0, TF16, TF1), (TF2, TF1, TF1, TF16, TF1),                                                                                          |
|           | (TF0, TF0, TF0, TF17, TF1), (TF1, TF0, TF0, TF17, TF1), (TF2, TF1, TF1, TF17, TF1),                                                                                     |
|           | (TF0, TF0, TF0, TF18, TF1), (TF1, TF0, TF0, TF18, TF1), (TF2, TF1, TF1, TF18, TF1))                                                                                     |

## 6.10.2.4.1.44.2.2 Physical channel parameters

| DPCH     | DTX position                           |                           | Flexible |
|----------|----------------------------------------|---------------------------|----------|
| Downlink | nlink Spreading factor Number of DPDCH |                           | 4        |
|          |                                        |                           | 3        |
|          | DPCCH                                  | Number of TFCI bits/slot  | 8        |
|          |                                        | Number of TPC bits/slot   | 8        |
|          |                                        | Number of Pilot bits/slot | 16       |
|          | DPDCH                                  | Number of data bits/slot  | 1248     |
|          |                                        | Number of data bits/frame | 18720    |

6.10.2.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.45.1 Uplink

6.10.2.4.1.45.1.1 Transport channel parameters

6.10.2.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.2.4.1.17.1.1.1.

6.10.2.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.45.1.1.4 TFCS

| TFCS size | 30                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=              |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |
|           | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)  |

# 6.10.2.4.1.45.1.2 Physical channel parameters

| DPCH   | Min spreading factor     | 16   |
|--------|--------------------------|------|
| Uplink | Max number of DPDCH data | 2400 |
|        | bits/radio frame         |      |
|        | Puncturing Limit         | 0.88 |

6.10.2.4.1.45.2 Downlink

6.10.2.4.1.45.2.1 Transport channel parameters

6.10.2.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.2.4.1.17.2.1.1.

6.10.2.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.45.2.1.4 TFCS

| TFCS size | 30                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=              |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), |
|           | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),      |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)  |

### 6.10.2.4.1.45.2.2 Physical channel parameters

| DPCH     | DTX positi       | on                        | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.46 Void
6.10.2.4.1.47 Void
6.10.2.4.1.48 Void
6.10.2.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.49.1 Uplink
6.10.2.4.1.49.1.1 Transport channel parameters

6.10.2.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.49.1.1.4 TFCS

| TFCS size | 12                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |
|           | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)  |

### 6.10.2.4.1.49.1.2 Physical channel parameters

| DPCH                            | Min spreading factor | 16   |
|---------------------------------|----------------------|------|
| Uplink Max number of DPDCH data |                      | 2400 |
|                                 | bits/radio frame     |      |
|                                 | Puncturing Limit     | 0.72 |

6.10.2.4.1.49.2 Downlink

6.10.2.4.1.49.2.1 Transport channel parameters

6.10.2.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.11.

#### 6.10.2.4.1.49.2.1.4 TFCS

| TFCS size | 12                                                                               |
|-----------|----------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                |
|           | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|           | (TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),      |
|           | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),      |
|           | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)       |

## 6.10.2.4.1.49.2.2 Physical channel parameters

| DPCH     | DTX position | on                        | Flexible |
|----------|--------------|---------------------------|----------|
| Downlink | Spreading    | factor                    | 32       |
|          | DPCCH        | Number of TFCI bits/slot  | 8        |
|          |              | Number of TPC bits/slot   | 4        |
|          |              | Number of Pilot bits/slot | 8        |
|          | DPDCH        | Number of data bits/slot  | 140      |
|          |              | Number of data bits/frame | 2100     |

6.10.2.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS

RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.2.4.1.49a.1 Uplink

6.10.2.4.1.49a.1.1 Transport channel parameters

6.10.2.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75)

kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.49a.1.1.4 TFCS

| TFCS size | 24                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),     |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)  |

## 6.10.2.4.1.49a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.72 |

6.10.2.4.1.49a.2 Downlink

6.10.2.4.1.49a.2.1 Transport channel parameters

6.10.2.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.49a.2.1.4 TFCS

| TFCS size | 24                                                                   |
|-----------|----------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=    |
|           | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),     |
|           | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|           | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), |
|           | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), |
|           | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),     |
|           | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
|           | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),     |
|           | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)  |

## 6.10.2.4.1.49a.2.2 Physical channel parameters

| DPCH     | DTX posit        | ion                       | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 bbps SRBs for DCCH

6.10.2.4.1.50.1 Uplink

6.10.2.4.1.50.1.1 Transport channel parameters

6.10.2.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.50.1.1.3 TFCS

| TFCS size | 8                                                                  |  |
|-----------|--------------------------------------------------------------------|--|
| TFCS      | (64 kbps RAB, 64 kbps RAB, DCCH)=                                  |  |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) |  |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |  |

## 6.10.2.4.1.50.1.2 Physical channel parameters

| DPCH   | Min spreading factor     | 8    |
|--------|--------------------------|------|
| Uplink | Max number of DPDCH data | 4800 |
|        | bits/radio frame         |      |
|        | Puncturing Limit         | 0.92 |

6.10.2.4.1.50.2 Downlink

6.10.2.4.1.50.2.1 Transport channel parameters

6.10.2.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.50.2.1.3 TFCS

| TFCS size | 8                                                                  |  |
|-----------|--------------------------------------------------------------------|--|
| TFCS      | (64 kbps RAB, 64 kbps RAB, DCCH)=                                  |  |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) |  |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |  |

## 6.10.2.4.1.50.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 16       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 288      |
|          |                  | Number of data bits/frame | 4320     |

6.10.2.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51.1 Uplink

6.10.2.4.1.51.1.1 Transport channel parameters

6.10.2.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.51.1.1.4 TFCS

| TFCS size | 20                                                                                   |
|-----------|--------------------------------------------------------------------------------------|
| TFCS      | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=                                          |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), |
|           | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), |
|           | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)  |

#### 6.10.2.4.1.51.1.2 Physical channel parameters

| DPCH                              | Min spreading factor     | 8    |
|-----------------------------------|--------------------------|------|
| Uplink                            | Max number of DPDCH data | 4800 |
| bits/radio frame Puncturing Limit |                          |      |
|                                   |                          | 0.88 |

6.10.2.4.1.51.2 Downlink

6.10.2.4.1.51.2.1 Transport channel parameters

6.10.2.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.51.2.1.4 TFCS

| TFCS size | 20                                                                                   |  |
|-----------|--------------------------------------------------------------------------------------|--|
| TFCS      | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=                                          |  |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), |  |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), |  |
|           | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), |  |
|           | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)  |  |

#### 6.10.2.4.1.51.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 16       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 288      |
|          |                  | Number of data bits/frame | 4320     |

6.10.2.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background /

UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

6.10.2.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.51a.1.1.4 TFCS

| TFCS size | 8                                                                   |  |
|-----------|---------------------------------------------------------------------|--|
| TFCS      | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                 |  |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), |  |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)  |  |

#### 6.10.2.4.1.51a.1.2 Physical channel parameters

| DPCH   | Min spreading factor                      | 16   |
|--------|-------------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio frame | 2400 |
|        | Puncturing Limit                          | 0.72 |

6.10.2.4.1.51a.2 Downlink

6.10.2.4.1.51a.2.1 Transport channel parameters

6.10.2.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.51a.2.1.4 TFCS

| TFCS size | 8                                                                  |  |
|-----------|--------------------------------------------------------------------|--|
| TFCS      | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                |  |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),     |  |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |  |

## 6.10.2.4.1.51a.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51b.1 Uplink

6.10.2.4.1.51b.1.1 Transport channel parameters

6.10.2.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

| Higher layer | RAB/Signa                                   | alling RB                                          | RAB     |
|--------------|---------------------------------------------|----------------------------------------------------|---------|
| RLC          | Logical channel type                        |                                                    | DTCH    |
|              | RLC mode                                    | 9                                                  | AM      |
|              | Payload s                                   | izes, bit                                          | 320     |
|              | Max data                                    | rate, bps                                          | 16000   |
|              | AMD PDU                                     | header, bit                                        | 16      |
| MAC          | MAC head                                    | der, bit                                           | 0       |
|              | MAC mult                                    | iplexing                                           | N/A     |
| Layer 1      | TrCH type                                   |                                                    | DCH     |
|              | TB sizes, bit                               |                                                    | 336     |
|              | TFS                                         | TF0, bits                                          | 0x336   |
|              |                                             | TF1, bits                                          | 1x336   |
|              |                                             | TF2, bits                                          | 2x336   |
|              | TTI, ms                                     |                                                    | 40      |
|              | Coding type                                 |                                                    | TC      |
|              | CRC, bit                                    |                                                    | 16      |
|              | Max number of bits/TTI after channel coding |                                                    | 2124    |
|              | Uplink: Ma                                  | ax number of bits/radio frame before rate matching | 531     |
|              | RM attribu                                  | ite                                                | 135-175 |

6.10.2.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.51b.1.1.4 TFCS

| TFCS size | 12                                                                                         |  |
|-----------|--------------------------------------------------------------------------------------------|--|
| TFCS      | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=                                       |  |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, |  |
|           | TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF1), (TF1, TF1,  |  |
|           | TF1), (TF1, TF2, TF1)                                                                      |  |

#### 6.10.2.4.1.51b.1.2 Physical channel parameters

| DPCH   | Min spreading factor                      | 16   |
|--------|-------------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio frame | 2400 |
|        | Puncturing Limit                          | 0.64 |

6.10.2.4.1.51b.2 Downlink

See clause 6.10.2.4.1.51.2.

6.10.2.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.2.4.1.52.1 Uplink

See clause 6.10.2.4.1.51.1.

6.10.2.4.1.52.2 Downlink

6.10.2.4.1.52.2.1 Transport channel parameters

6.10.2.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.52.2.1.4 TFCS

| TFCS size | 20                                                                                   |
|-----------|--------------------------------------------------------------------------------------|
| TFCS      | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=                                         |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), |
|           | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), |
|           | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)  |

## 6.10.2.4.1.52.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 8        |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 8        |
|          |                  | Number of Pilot bits/slot | 16       |
|          | DPDCH            | Number of data bits/slot  | 608      |
|          |                  | Number of data bits/frame | 9120     |

6.10.2.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background /

UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.53.1 Uplink

6.10.2.4.1.53.1.1 Transport channel parameters

6.10.2.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.53.1.1.4 TFCS

| TFCS size | 20                                                                                   |  |
|-----------|--------------------------------------------------------------------------------------|--|
| TFCS      | (Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=                                          |  |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0), |  |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0), |  |
|           | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1), |  |
|           | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)  |  |

### 6.10.2.4.1.53.1.2 Physical channel parameters

| DPCH   | Min spreading factor     | 4    |
|--------|--------------------------|------|
| Uplink | Max number of DPDCH data | 9600 |
|        | bits/radio frame         |      |
|        | Puncturing Limit         | 0.96 |

6.10.2.4.1.53.2 Downlink

See clause 6.10.2.4.1.52.2.

| 6.10.2.4.1.54     | Void                                                                                                                                         |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 6.10.2.4.1.55     | Void                                                                                                                                         |
| 6.10.2.4.1.56     | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH |
| 6.10.2.4.1.56.1   | Uplink                                                                                                                                       |
| 6.10.2.4.1.56.1.1 | Transport channel parameters                                                                                                                 |
|                   |                                                                                                                                              |

6.10.2.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher<br>Layer | RAB/Sig                                     | nalling RB                     | RAB                            | RAB  |
|-----------------|---------------------------------------------|--------------------------------|--------------------------------|------|
| RLC             | Logical channel type                        |                                | DTCH                           | DTCH |
|                 | RLC mo                                      |                                | AM                             | AM   |
|                 | Payload                                     | sizes, bit                     | 320                            | 320  |
|                 | Max data                                    | a rate, bps                    | 8000                           | 8000 |
|                 | AMD PD                                      | U header, bit                  | 16                             | 16   |
| MAC             | MAC header, bit                             |                                | 4                              | 4    |
|                 | MAC multiplexing                            |                                | 2 logical channel multiplexing |      |
| Layer 1         | TrCH type                                   |                                | DCH                            |      |
| •               | TB sizes                                    |                                | 340                            |      |
|                 | TFS                                         | TF0, bits                      | 0x340                          |      |
|                 |                                             | TF1, bits                      | 1x34                           | 0    |
|                 | TTI, ms                                     |                                | 40                             |      |
|                 | Coding type                                 |                                | TC                             |      |
|                 | CRC, bit                                    |                                | 16                             |      |
|                 | Max number of bits/TTI after channel coding |                                | 1080                           |      |
|                 | Uplink: N                                   | Max number of bits/radio frame | 270                            |      |
|                 | before ra                                   | ate matching                   |                                |      |
|                 | RM attribute                                |                                | 135-175                        |      |

## 6.10.2.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.56.1.1.3 TFCS

| TFCS size | 4                                          |  |
|-----------|--------------------------------------------|--|
| TFCS      | (8 kbps RAB + 8 kbps RAB, DCCH)=           |  |
|           | (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |  |

## 6.10.2.4.1.56.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64  |
|--------|-------------------------------------|-----|
| Uplink | Max number of DPDCH data bits/radio | 600 |
|        | frame                               |     |
|        | Puncturing Limit                    | 1.0 |

6.10.2.4.1.56.2 Downlink

6.10.2.4.1.56.2.1 Transport channel parameters

6.10.2.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB                            | RAB  |
|-----------------|---------------------------------------------|--------------------------------|------|
| RLC             | Logical channel type                        | DTCH                           | DTCH |
|                 | RLC mode                                    | AM                             | AM   |
|                 | Payload sizes, bit                          | 320                            | 320  |
|                 | Max data rate, bps                          | 8000                           | 8000 |
|                 | AMD PDU header, bit                         | 16                             | 16   |
| MAC             | MAC header, bit                             | 4                              | 4    |
|                 | MAC multiplexing                            | 2 logical channel multiplexing |      |
| Layer 1         | TrCH type                                   | DCH                            |      |
|                 | TB sizes, bit                               | 340                            |      |
|                 | TFS TF0, bits                               | 0x340                          |      |
|                 | TF1, bits                                   | 1x3                            | 40   |
|                 | TTI, ms                                     | 40                             |      |
|                 | Coding type                                 | TC                             |      |
|                 | CRC, bit                                    | 16                             |      |
|                 | Max number of bits/TTI after channel coding | 1080                           |      |
|                 | RM attribute                                | 135-175                        |      |

6.10.2.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.56.2.1.3 TFCS

| TFCS size | 4                                          |  |
|-----------|--------------------------------------------|--|
| TFCS      | (8 kbps RAB + 8 kbps RAB, DCCH)=           |  |
|           | (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |  |

## 6.10.2.4.1.56.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 128      |
|          | DPCCH            | Number of TFCI bits/slot  | 2        |
|          |                  | Number of TPC bits/slot   | 2        |
|          |                  | Number of Pilot bits/slot | 4        |
|          | DPDCH            | Number of data bits/slot  | 32       |
|          |                  | Number of data bits/frame | 480      |

6.10.2.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.2.4.1.57.1 Uplink

6.10.2.4.1.57.1.1 Transport channel parameters

6.10.2.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                           | RAB              | RAB            |
|-----------------|-------------------------------------------------------------|------------------|----------------|
| RLC             | Logical channel type                                        | DTCH             | DTCH           |
|                 | RLC mode                                                    | AM               | AM             |
|                 | Payload sizes, bit                                          | 320              | 320            |
|                 | Max data rate, bps                                          | 64000            | 64000          |
|                 | AMD PDU header, bit                                         | 16               | 16             |
| MAC             | MAC header, bit                                             | 4                | 4              |
|                 | MAC multiplexing                                            | 2 logical channe | l multiplexing |
| Layer 1         | TrCH type                                                   | DCH              |                |
|                 | TB sizes, bit                                               | 340              |                |
|                 | TFS TF0, bits                                               | 0x340            |                |
|                 | TF1, bits                                                   | 1x34             | -0             |
|                 | TF2, bits                                                   | 2x34             | 10             |
|                 | TF3, bits                                                   | 3x34             | 10             |
|                 | TF4, bits                                                   | 4x340            |                |
|                 | TTI, ms                                                     | 20               |                |
|                 | Coding type                                                 | TC               |                |
|                 | CRC, bit                                                    | 16               |                |
|                 | Max number of bits/TTI after channel coding                 | 4284             |                |
|                 | Uplink: Max number of bits/radio frame before rate matching | 214              | 2              |
|                 | RM attribute                                                | 130-170          |                |

## 6.10.2.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.57.1.1.3 TFCS

| TFCS size | 10                                                     |
|-----------|--------------------------------------------------------|
| TFCS      | (64 kbps RAB + 64 kbps RAB, DCCH)=                     |
|           | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), |
|           | (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)  |

## 6.10.2.4.1.57.1.2 Physical channel parameters

| DPCH             | Min spreading factor                | 16   |
|------------------|-------------------------------------|------|
| Uplink           | Max number of DPDCH data bits/radio | 2400 |
| •                | frame                               |      |
| Puncturing Limit |                                     | 0.92 |

6.10.2.4.1.57.2 Downlink

6.10.2.4.1.57.2.1 Transport channel parameters

# 6.10.2.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB |                                       | RAB                            | RAB   |
|-----------------|-------------------|---------------------------------------|--------------------------------|-------|
| RLC             |                   |                                       | DTCH                           | DTCH  |
|                 | RLC mo            | de                                    | AM                             | AM    |
|                 | Payload           | sizes, bit                            | 320                            | 320   |
|                 | Max data          | a rate, bps                           | 64000                          | 64000 |
|                 | AMD PD            | U header, bit                         | 16                             | 16    |
| MAC             | MAC hea           | ader, bit                             | 4                              | 4     |
|                 | MAC mu            | ıltiplexing                           | 2 logical channel multiplexing |       |
| Layer 1         | TrCH type         |                                       | DCH                            |       |
|                 | TB sizes          | , bit                                 | 340                            |       |
|                 | TFS               | 0x340                                 | 0x340                          |       |
|                 |                   | 1x340                                 | 1x340                          |       |
|                 |                   | 2x340                                 | 2x                             | 340   |
|                 |                   | 3x340                                 | 3x340                          |       |
|                 |                   | 4x340                                 | 4x                             | 340   |
|                 | TTI, ms           |                                       | 20                             |       |
|                 | Coding t          | ype                                   | TC                             |       |
|                 | CRC, bit          |                                       | 16                             |       |
|                 | Max nun           | nber of bits/TTI after channel coding | 4284                           |       |
|                 | RM attrib         | oute                                  | 130-170                        |       |

## 6.10.2.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.57.2.1.3 TFCS

| TFCS size | 10                                                     |  |
|-----------|--------------------------------------------------------|--|
| TFCS      | (64 kbps RAB + 64 kbps RAB, DCCH)=                     |  |
|           | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), |  |
|           | (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)  |  |

## 6.10.2.4.1.57.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8

DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.58.1 Uplink

6.10.2.4.1.58.1.1 Transport channel parameters

6.10.2.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

| Higher layer | RAB/Signalling RB                           | RAB     |
|--------------|---------------------------------------------|---------|
| RLC          | Logical channel type                        | DTCH    |
|              | RLC mode                                    | AM      |
|              | Payload sizes, bit                          | 320     |
|              | Max data rate, bps                          | 16000   |
|              | AMD PDU header, bit                         | 16      |
| MAC          | MAC header, bit                             | 0       |
|              | MAC multiplexing                            | N/A     |
| Layer 1      | TrCH type                                   | DCH     |
|              | TB sizes, bit                               | 336     |
|              | TFS TF0, bits                               | 0x336   |
|              | TF1, bits                                   | 1x336   |
|              | TTI, ms                                     | 20      |
|              | Coding type                                 | TC      |
|              | CRC, bit                                    | 16      |
|              | Max number of bits/TTI after channel coding | 1068    |
|              | Uplink: Max number of bits/radio frame      | 534     |
|              | before rate matching                        |         |
|              | RM attribute                                | 135-175 |

6.10.2.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.58.1.1.4 TFCS

| TFCS size | 8                                                           |
|-----------|-------------------------------------------------------------|
| TFCS      | (16 kbps RAB, 8 kbps RAB, DCCH)=                            |
|           | (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), |
|           | (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1)  |

## 6.10.2.4.1.58.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.58.2 Downlink

6.10.2.4.1.58.2.1 Transport channel parameters

6.10.2.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| Higher<br>layer | RAB/Sig   | gnalling RB                           | RAB     |
|-----------------|-----------|---------------------------------------|---------|
| RLC             | Logical   | channel type                          | DTCH    |
|                 | RLC mo    |                                       | AM      |
|                 | Payload   | sizes, bit                            | 640     |
|                 | Max dat   | a rate, bps                           | 64000   |
|                 | AM PDU    | J header, bit                         | 16      |
| MAC             | MAC he    | ader, bit                             | 0       |
|                 | MAC mu    | ultiplexing                           | N/A     |
| Layer 1         | TrCH type |                                       | DCH     |
| -               | TB sizes  |                                       | 656     |
|                 | TFS       | TF0, bits                             | 0x656   |
|                 |           | TF1, bits                             | 1x656   |
|                 |           | TF2, bits                             | 2x656   |
|                 |           | TF3, bits                             | 4x656   |
|                 | TTI, ms   |                                       | 40      |
|                 | Coding    | type                                  | TC      |
|                 | CRC, bi   |                                       | 16      |
|                 | Max nur   | mber of bits/TTI after channel coding | 8076    |
|                 | RM attri  | bute                                  | 125-165 |

6.10.2.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.58.2.1.4 TFCS

| TFCS size | 16                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (64 kbps RAB, 8 kbps RAB, DCCH)=                            |
|           | (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), |
|           | (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), |
|           | (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), |
|           | (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1)  |

## 6.10.2.4.1.58.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.59 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.59.1 Uplink

6.10.2.4.1.59.1.1 Transport channel parameters

6.10.2.4.1.59.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

| Higher layer | RAB/S                 | ignalling RB                                        | RAB           |
|--------------|-----------------------|-----------------------------------------------------|---------------|
| PDCP         | PDCP header size, bit |                                                     | 8             |
| RLC          | Logica                | I channel type                                      | DTCH          |
|              | RLC m                 | ode                                                 | UM            |
|              | Payloa                | d sizes, bit                                        | 920, 304, 96  |
|              | Max da                | ata rate, bps                                       | 46000         |
|              | UMD F                 | PDU header, bit                                     | 8             |
| MAC          | MAC h                 | eader, bit                                          | 0             |
|              | MAC n                 | nultiplexing                                        | N/A           |
| Layer 1      | TrCH type             |                                                     | DCH           |
|              | TB size               | es, bit                                             | 928, 312, 104 |
|              | TFS                   | TF0, bits                                           | 0x928         |
|              |                       | TF1, bits                                           | 1x104         |
|              |                       | TF2, bits                                           | 1x312         |
|              |                       | TF3, bits                                           | 1x928         |
|              | TTI, m                | S                                                   | 20            |
|              | Coding type           |                                                     | TC            |
|              | CRC, b                | pit                                                 | 16            |
|              | Max nu                | umber of bits/TTI after channel coding              | 2844          |
|              | Uplink:               | Max number of bits/radio frame before rate matching | 1422          |
|              | RM att                | ribute                                              | 180-220       |

6.10.2.4.1.59.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB + UL:16 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB             | RAB                            |  |
|-----------------|---------------------------------------------|-----------------|--------------------------------|--|
| RLC             | Logical channel type                        | DTCH            | DTCH                           |  |
|                 | RLC mode                                    | AM              | AM                             |  |
|                 | Payload sizes, bit                          | 320             | 320                            |  |
|                 | Max data rate, bps                          | 16000           | 16000                          |  |
|                 | AMD PDU header, bit                         | 16              | 16                             |  |
| MAC             | MAC header, bit                             | 4               | 4                              |  |
|                 | MAC multiplexing                            | 2 logical chann | 2 logical channel multiplexing |  |
| Layer 1         | TrCH type                                   | DCH             |                                |  |
|                 | TB sizes, bit                               | 340             |                                |  |
|                 | TFS TF0, bits                               | 0x3             | 340                            |  |
|                 | TF1, bits                                   | 1x3             | 340                            |  |
|                 | TF2, bits                                   | 2X3             | 340                            |  |
|                 | TTI, ms                                     | 40              |                                |  |
|                 | Coding type                                 | TC              |                                |  |
|                 | CRC, bit                                    | 16              |                                |  |
|                 | Max number of bits/TTI after channel coding | 2148            |                                |  |
|                 | Uplink: Max number of bits/radio frame      | 537             |                                |  |
|                 | before rate matching                        |                 |                                |  |
|                 | RM attribute                                | 135-            | ·175                           |  |

6.10.2.4.1.59.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

## 6.10.2.4.1.59.1.1.4 TFCS

| TFCS size | 24                                                                                                   |
|-----------|------------------------------------------------------------------------------------------------------|
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=                                 |
|           | (TF0, TF0, TF0), (TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1)      |
|           | (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)     |
|           | (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1) |
|           | (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3, TF1, TF0), (TF3, TF1, TF1), (TF3, TF2, TF0), (TF3, TF2, TF1) |

## 6.10.2.4.1.59.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.76 |

6.10.2.4.1.59.2 Downlink

6.10.2.4.1.59.2.1 Transport channel parameters

## 6.10.2.4.1.59.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

| Higher layer | RAB/Signalling RB |                                        |               |
|--------------|-------------------|----------------------------------------|---------------|
| PDCP         | PDCP              | header size, bit                       | 8             |
| RLC          | Logica            | Il channel type                        | DTCH          |
|              | RLC m             | node                                   | UM            |
|              | Payloa            | ad sizes, bit                          | 920, 304, 96  |
|              | Max da            | ata rate, bps                          | 46000         |
|              | UMD F             | PDU header, bit                        | 8             |
| MAC          | MAC h             | neader, bit                            | 0             |
|              | MAC n             | nultiplexing                           | N/A           |
| Layer 1      | TrCH type         |                                        | DCH           |
|              | TB size           | es, bit                                | 928, 312, 104 |
|              | TFS               | TF0, bits                              | 0x928         |
|              |                   | TF1, bits                              | 1x104         |
|              |                   | TF2, bits                              | 1x312         |
|              |                   | TF3, bits                              | 1x928         |
|              | TTI, m            | S                                      | 20            |
|              | Coding type       |                                        | TC            |
|              | CRC, bit          |                                        | 16            |
|              | Max no            | umber of bits/TTI after channel coding | 2844          |
|              | RM att            | tribute                                | 180-220       |

6.10.2.4.1.59.2.1.2 Transport channel parameters for Interactive / DL:16kbps / PS RAB + DL:16 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB                            | RAB   |
|-----------------|---------------------------------------------|--------------------------------|-------|
| RLC             | Logical channel type                        | DTCH                           | DTCH  |
|                 | RLC mode                                    | AM                             | AM    |
|                 | Payload sizes, bit                          | 320                            | 320   |
|                 | Max data rate, bps                          | 16000                          | 16000 |
|                 | AMD PDU header, bit                         | 16                             | 16    |
| MAC             | MAC header, bit                             | 4                              | 4     |
|                 | MAC multiplexing                            | 2 logical channel multiplexing |       |
| Layer 1         | TrCH type                                   | DCH                            |       |
| •               | TB sizes, bit                               | 340                            |       |
|                 | TFS TF0, bits                               | 0x340                          |       |
|                 | TF1, bits                                   | 1x34                           | 10    |
|                 | TF2, bits                                   | 2X340                          |       |
|                 | TTI, ms                                     | 40                             |       |
|                 | Coding type                                 | TC                             |       |
|                 | CRC, bit                                    | 16                             |       |
|                 | Max number of bits/TTI after channel coding | 214                            | 8     |
|                 | RM attribute                                | 135-1                          | 75    |

6.10.2.4.1. 59.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.59.2.1.4 TFCS

| TFCS size | 24                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=                             |
|           | (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)  |
|           | (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) |
|           | (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) |
|           | (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

## 6.10.2.4.1.59.2.2 Physical channel parameters

| DPCH     | DTX position |                           | Flexible |
|----------|--------------|---------------------------|----------|
| Downlink | Spreading    | g factor                  | 32       |
|          | DPCCH        | Number of TFCI bits/slot  | 8        |
|          |              | Number of TPC bits/slot   | 4        |
|          |              | Number of Pilot bits/slot | 8        |
|          | DPDCH        | Number of data bits/slot  | 140      |
|          |              | Number of data bits/frame | 2100     |

6.10.2.4.1.60 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH Reserved for future use

6.10.2.4.1.60.1 Uplink

6.10.2.4.1.60.1.1 Transport channel parameters

## 6.10.2.4.1.60.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           | RAB           |
|--------------|-------------------------------------------------------------|---------------|
| PDCP         | PDCP header size, bit                                       | 8             |
| RLC          | Logical channel type                                        | DTCH          |
|              | RLC mode                                                    | UM            |
|              | Payload sizes, bit                                          | 920, 304, 96  |
|              | Max data rate, bps                                          | 46000         |
|              | UMD PDU header, bit                                         | 8             |
| MAC          | MAC header, bit                                             | 0             |
|              | MAC multiplexing                                            | N/A           |
| Layer 1      | TrCH type                                                   | DCH           |
|              | TB sizes, bit                                               | 928, 312, 104 |
|              | TFS TF0, bits                                               | 0x928         |
|              | TF1, bits                                                   | 1x104         |
|              | TF2, bits                                                   | 1x312         |
|              | TF3, bits                                                   | 1x928         |
|              | TTI, ms                                                     | 20            |
|              | Coding type                                                 | TC            |
|              | CRC, bit                                                    | 16            |
|              | Max number of bits/TTI after channel coding                 | 2844          |
|              | Uplink: Max number of bits/radio frame before rate matching | 1422          |
|              | RM attribute                                                | 180-220       |

## 6.10.2.4.1.60.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1

## 6.10.2.4.1.60.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.60.1.1.4 TFCS

| TFCS size | 24                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=                                    |
|           | (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)  |
|           | (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) |
|           | (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) |
|           | (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

## 6.10.2.4.1.60.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 16   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.76 |

6.10.2.4.1.60.2 Downlink

6.10.2.4.1.60.2.1 Transport channel parameters

6.10.2.4.1.60.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

| Higher layer | RAB/S                 | ignalling RB                           | RAB           |
|--------------|-----------------------|----------------------------------------|---------------|
| PDCP         | PDCP header size, bit |                                        | 8             |
| RLC          | Logica                | l channel type                         | DTCH          |
|              | RLC m                 | node                                   | UM            |
|              | Payloa                | ad sizes, bit                          | 920, 304, 96  |
|              | Max da                | ata rate, bps                          | 46000         |
|              | UMD F                 | PDU header, bit                        | 8             |
| MAC          | MAC h                 | neader, bit                            | 0             |
|              | MAC multiplexing      |                                        | N/A           |
| Layer 1      | TrCH type             |                                        | DCH           |
|              | TB size               | es, bit                                | 928, 312, 104 |
|              | TFS                   | TF0, bits                              | 0x928         |
|              |                       | TF1, bits                              | 1x104         |
|              |                       | TF2, bits                              | 1x312         |
|              |                       | TF3, bits                              | 1x928         |
|              | TTI, m                | S                                      | 20            |
|              | Coding                | , ,,                                   | TC            |
|              | CRC, I                |                                        | 16            |
|              | Max ni                | umber of bits/TTI after channel coding | 2844          |
|              | RM att                | ribute                                 | 180-220       |

6.10.2.4.1.60.2.1.2 Transport channel parameters for Interactive / DL:16kbps PS RAB

See clause 6.10.2.4.1.23b.2.1.1

6.10.2.4.1.60.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.60.2.1.4 TFCS

| TFCS size | 24                                                                                                   |
|-----------|------------------------------------------------------------------------------------------------------|
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=                                        |
|           | (TF0, TF0, TF0), (TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1)      |
|           | (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF2, TF0), (TF1, TF2, TF1) |
|           | (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1) |
|           | (TF3, TF0, TF0), (TF3, TF0, TF1), (TF3, TF1, TF0), (TF3, TF1, TF1), (TF3, TF2, TF0), (TF3, TF2, TF1) |

## 6.10.2.4.1.60.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 32       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 140      |
|          |                  | Number of data bits/frame | 2100     |

6.10.2.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.2.4.1.61.1 Uplink

6.10.2.4.1.61.1.1 Transport channel parameters

## 6.10.2.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                  | RAB                     |  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--|
| RLC          | Logical channel type                                                                                                                                                               | DTCH                    |  |
|              | RLC mode                                                                                                                                                                           | UM                      |  |
|              | Payload sizes, bit                                                                                                                                                                 | 320                     |  |
|              | Max data rate, bps                                                                                                                                                                 | 8000                    |  |
|              | UMD PDU header, bit                                                                                                                                                                | 8                       |  |
| MAC          | MAC header, bit                                                                                                                                                                    | 0                       |  |
|              | MAC multiplexing                                                                                                                                                                   | N/A                     |  |
| Layer 1      | TrCH type                                                                                                                                                                          | DCH                     |  |
| ,            | TB sizes, bit                                                                                                                                                                      | 328 (alt 0, 328) (note) |  |
|              | TFS TF0, bits                                                                                                                                                                      | 0x328 (alt 1x0) (note)  |  |
|              | TF1, bits                                                                                                                                                                          | 1x328                   |  |
|              | TTI, ms                                                                                                                                                                            | 40                      |  |
|              | Coding type                                                                                                                                                                        | TC                      |  |
|              | CRC, bit                                                                                                                                                                           | 16                      |  |
|              | Max number of bits/TTI after channel coding                                                                                                                                        | 1044                    |  |
|              | Uplink: Max number of bits/radio frame before rate matching                                                                                                                        | 261                     |  |
|              | RM attribute                                                                                                                                                                       | 135-175                 |  |
|              | In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.212). |                         |  |

 $6.10.2.4.1.61.1.1.2 \qquad \text{Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB}$ 

See section 6.10.2.4.1.38b.1.1.2

6.10.2.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See section 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.61.1.1.4 TFCS

| TFCS size | 8                                                                  |
|-----------|--------------------------------------------------------------------|
| TFCS      | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                 |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),     |
|           | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |

## 6.10.2.4.1.61.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 32   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 1200 |
|        | frame                               |      |
|        | Puncturing Limit                    | 1.0  |

6.10.2.4.1.61.2 Downlink

6.10.2.4.1.61.2.1 Transport channel parameters

## 6.10.2.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                      | RAB                                                    |
|-----------------|--------------------------------------------------------|--------------------------------------------------------|
| RLC             | Logical channel type                                   | DTCH                                                   |
| İ               | RLC mode                                               | UM                                                     |
|                 | Payload sizes, bit                                     | 320                                                    |
|                 | Max data rate, bps                                     | 8000                                                   |
|                 | AMD PDU header, bit                                    | 8                                                      |
| MAC             | MAC header, bit                                        | 0                                                      |
|                 | MAC multiplexing                                       | N/A                                                    |
| Layer 1         | TrCH type                                              | DCH                                                    |
|                 | TB sizes, bit                                          | 328 (alt 0, 328) (note)                                |
|                 | TFS TF0, bits                                          | 0x328 (alt 1x0) (note)                                 |
|                 | TF1, bits                                              | 1x328                                                  |
| l               | TTI, ms                                                | 40                                                     |
| 1               | Coding type                                            | TC                                                     |
| l               | CRC, bit                                               | 16                                                     |
|                 | Max number of bits/TTI after channel coding            | 1044                                                   |
|                 | RM attribute                                           | 135-175                                                |
| NOTE: In        | case of using this alternative, CRC parity bits are to | be attached any time since number of TrBlks are 1 even |

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.212).

6.10.2.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See section 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See section 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.61.2.1.4 TFCS

| TFCS size | 8                                                                   |  |
|-----------|---------------------------------------------------------------------|--|
| TFCS      | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                  |  |
|           | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), |  |
|           | (TE1, TE0, TE0), (TE1, TE1, TE0), (TE1, TE0, TE1), (TE1, TE1, TE1)  |  |

## 6.10.2.4.1.61.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor |                           | 64       |
|          | DPCCH            | Number of TFCI bits/slot  | 8        |
|          |                  | Number of TPC bits/slot   | 4        |
|          |                  | Number of Pilot bits/slot | 8        |
|          | DPDCH            | Number of data bits/slot  | 60       |
|          |                  | Number of data bits/frame | 900      |

6.10.2.4.1.62 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.1.62.1.1 Transport channel parameters

## 6.10.2.4.1.62.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                           | RAB subflow #1                             | RAB subflow #2 |
|-----------------|-------------------------------------------------------------|--------------------------------------------|----------------|
| RLC             | Logical channel type                                        | DTC                                        | Н              |
|                 | RLC mode                                                    | TM                                         | TM             |
|                 | Payload sizes, bit                                          | 40, 54, 64, 72<br>(alt. 0, 40, 54, 64, 72) | 78, 113, 181   |
|                 | Max data rate, bps                                          | 1265                                       | 60             |
|                 | TrD PDU header, bit                                         | 0                                          |                |
| MAC             | MAC header, bit                                             | 0                                          |                |
|                 | MAC multiplexing                                            | N/A                                        |                |
| Layer 1         | TrCH type                                                   | DCH                                        | DCH            |
|                 | TB sizes, bit                                               | 40, 54, 64, 72<br>(alt. 0, 40, 54, 64, 72) | 78, 113, 181   |
|                 | TFS TF0, bits                                               | 0x72(alt. 1x0) (note)                      | 0x181          |
|                 | TF1, bits                                                   | 1x40´                                      | 1x78           |
|                 | TF2 bits                                                    | 1x54                                       | 1x113          |
|                 | TF3, bits                                                   | 1x64                                       | 1x181          |
|                 | TF4, bits                                                   | 1x72                                       | N/A            |
|                 | TTI, ms                                                     | 20                                         | 20             |
|                 | Coding type                                                 | CC 1/3                                     | CC 1/3         |
|                 | CRC, bit                                                    | 12                                         | N/A            |
|                 | Max number of bits/TTI after channel coding                 | 276                                        | 567            |
|                 | Uplink: Max number of bits/radio frame before rate matching | 138                                        | 284            |
|                 | RM attribute                                                | 180-220                                    | 170-210        |

## 6.10.2.4.1.62.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.62.1.1.3 TFCS

| TFCS size | 10                                                                         |
|-----------|----------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=                                      |
|           | (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF4,TF3,TF0), |
|           | (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1), (TF4,TF3,TF1)  |

#### 6.10.2.4.1.62.1.1.4 TFC subset list

| TFC subset list | 3                                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| size            |                                                                                                                                                            |
| TFC subset list | 0 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1)},                                                            |
|                 | 1 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1)},                              |
|                 | 2 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF4,TF3,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1), (TF4,TF3,TF1)} |

#### 6.10.2.4.1.62.1.2 Physical channel parameters

| DPCH   | Min spreading factor                | 64   |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 600  |
|        | frame                               |      |
|        | Puncturing Limit                    | 0.84 |

6.10.2.4.1.62.2 Downlink

6.10.2.4.1.62.2.1 Transport channel parameters

## 6.10.2.4.1.62.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                           |            | RAB subflow #1    | RAB subflow #2 |
|-----------------|---------------------------------------------|------------|-------------------|----------------|
| RLC             | Logical cha                                 | nnel type  | DTO               | CH             |
|                 | RLC mode                                    | •          | TM                | TM             |
|                 | Payload siz                                 | es, bit    | 0, 40, 54, 64, 72 | 78, 113, 181   |
|                 | Max data ra                                 |            | 12 6              | 550            |
|                 | TrD PDU he                                  | eader, bit | 0                 |                |
| MAC             | MAC heade                                   | er, bit    | 0                 |                |
|                 | MAC multip                                  | lexing     | N/.               | A              |
| Layer 1         | TrCH type                                   |            | DCH               | DCH            |
| •               | TB sizes, bit                               |            | 0, 40, 54, 64, 72 | 78, 113, 181   |
|                 | TFS                                         | TF0, bits  | 1x0 (note 2)      | 0x181          |
|                 | (note 1)                                    | TF1, bits  | 1x40              | 1x78           |
|                 |                                             | TF2, bits  | 1x54              | 1x113          |
|                 |                                             | TF3, bits  | 1x64              | 1x181          |
|                 |                                             | TF4, bits  | 1x72              | N/A            |
|                 | TTI, ms                                     |            | 20                | 20             |
|                 | Coding type                                 |            | CC 1/3            | CC 1/3         |
|                 | CRC, bit                                    |            | 12                | N/A            |
|                 | Max number of bits/TTI after channel coding |            | 276               | 567            |
|                 | RM attribute                                | 9          | 180-220           | 170-210        |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25 212)

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212.).

## 6.10.2.4.1.62.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.62.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

| Higher layer | RAB/signalling RB                           |                 | SRB#5                            |
|--------------|---------------------------------------------|-----------------|----------------------------------|
|              | User of Radio Bearer                        |                 | RRC                              |
| RLC          | Logical channel type                        |                 | DCCH                             |
|              | RLC mode                                    |                 | TM                               |
|              | Payload sizes, bit                          |                 | 3                                |
|              | Max data rate, bps                          |                 | 150                              |
|              | TrD PDU header, bit                         |                 | 0                                |
| MAC          | MAC header, bit                             |                 | 0                                |
|              | MAC multiplexing                            |                 | N/A                              |
| Layer 1      | TrCH type                                   |                 | DCH                              |
|              | TB sizes, bit                               |                 | 3 (alt 0, 3) (note)              |
|              | TFS TF                                      | 0, bits         | 0x3 (alt 1x0) (note)             |
|              | TF                                          | 1, bits         | 1x3                              |
|              | TTI, ms                                     |                 | 20                               |
|              | Coding type                                 |                 | CC 1/3                           |
|              | CRC, bit                                    |                 | 8                                |
|              | Max number of bits/TTI before rate matching |                 | 57                               |
|              | RM attribute                                |                 | 155-256                          |
| NOTE: altern | ative parameters enable the                 | measurement "tr | ansport channel BLER" in the UE. |

## 6.10.2.4.1.62.2.1.4 TFCS

| TFCS size | 20                                                                          |
|-----------|-----------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH 3.4, DCCH 0.15)=                        |
|           | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), |
|           | (TF4,TF3,TF0,TF0), (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF0), |
|           | (TF3,TF2,TF1,TF0), (TF4,TF3,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), |
|           | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF0,TF0,TF1,TF1), |
|           | (TF1,TF0,TF1,TF1), (TF2,TF1,TF1,TF1), (TF3,TF2,TF1,TF1), (TF4,TF3,TF1,TF1)  |

## 6.10.2.4.1.62.2.2 Physical channel parameters

| DPCH     | DTX position     |                           | Fixed |
|----------|------------------|---------------------------|-------|
| Downlink | Spreading factor |                           | 128   |
|          | DPCCH            | Number of TFCI bits/slot  | 0     |
|          |                  | Number of TPC bits/slot   | 2     |
|          |                  | Number of Pilot bits/slot | 4     |
|          | DPDCH            | Number of data bits/slot  | 34    |
|          |                  | Number of data bits/frame | 510   |

6.10.2.4.1.63 Interactive or background / UL:64 DL:768 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.63.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.63.2 Downlink

6.10.2.4.1.63.2.1 Transport channel parameters

6.10.2.4.1.63.2.1.1 Transport channel parameters for Interactive or background / DL:768 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB               |
|-----------------|---------------------------------------------|-------------------|
| RLC             | Logical channel type                        | DTCH              |
|                 | RLC mode                                    | AM                |
|                 | Payload sizes, bit                          | 320               |
|                 | Max data rate, bps                          | 768000            |
|                 | AMD PDU header, bit                         | 16                |
| MAC             | MAC header, bit                             | 0                 |
|                 | MAC multiplexing                            | N/A               |
| Layer 1         | TrCH type                                   | DCH               |
|                 | TB sizes, bit                               | 336               |
|                 | TFS TF0, bits                               | 0x336             |
|                 | TF1, bits                                   | 1x336             |
|                 | TF2, bits                                   | 2x336             |
|                 | TF3, bits                                   | 4 x336            |
|                 | TF4, bits                                   | 8 x336            |
|                 | TF5, bits                                   | 12x336            |
|                 | TF6, bits                                   | 16 x336           |
|                 | TF7, bits                                   | 20 x336           |
|                 | TF8, bits                                   | 24 x336           |
|                 | TF9, bits                                   | N/A (alt 28x336)  |
|                 | TF10, bits                                  | N/A (alt 32x336)  |
|                 | TF11, bits                                  | N/A (alt 36x336)  |
|                 | TF12, bits                                  | N/A (alt 40x336)  |
|                 | TF13, bits                                  | N/A (alt 44x336)  |
|                 | TF14, bits                                  | N/A (alt 48x336)  |
|                 | TTI, ms                                     | 10 (alt 20)       |
|                 | Coding type                                 | TC                |
|                 | CRC, bit                                    | 16                |
|                 | Max number of bits/TTI after channel coding | 25368 (alt 50736) |
|                 | RM attribute                                | 110-150           |

## 6.10.2.4.1.63.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.63.2.1.3 TFCS

| TFCS size | 18 (alt. 30)                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (768 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),                                                                                                                                                                  |
|           | (TF8, TF1)  (alt . (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1)) |

## 6.10.2.4.1.63.2.2 Physical channel parameters

| DPCH     | DTX position   |                           | Flexible |
|----------|----------------|---------------------------|----------|
| Downlink | Spreading      | factor                    | 8        |
|          | Number of DPCH |                           | 2        |
|          | DPCCH          | Number of TFCI bits/slot  | 8        |
|          |                | Number of TPC bits/slot   | 8        |
|          |                | Number of Pilot bits/slot | 16       |
|          | DPDCH          | Number of data bits/slot  | 608      |
|          |                | Number of data bits/frame | 9120     |

6.10.2.4.2 Combinations on PDSCH and DPCH

6.10.2.4.2.1 Void

6.10.2.4.2.2 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.2.4.2.2.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.2.2.2 Downlink

6.10.2.4.2.2.2.1 Transport channel parameters

## 6.10.2.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB                                                    |
|-----------------|---------------------------------------------|--------------------------------------------------------|
| RLC             | Logical channel type                        | DTCH                                                   |
|                 | RLC mode                                    | AM                                                     |
|                 | Payload sizes, bit                          | 320                                                    |
|                 | Max data rate, bps                          | 384000                                                 |
|                 | AMD PDU header, bit                         | 16                                                     |
| MAC             | MAC header, bit                             | 18                                                     |
|                 | MAC multiplexing                            | Logical channel multiplexing on a frame by frame basis |
| Layer 1         | TrCH type                                   | DSCH                                                   |
|                 | TB sizes, bit                               | 354                                                    |
|                 | TFS TF0, bits                               | 0x354                                                  |
|                 | TF1, bits                                   | 1x354                                                  |
|                 | TF2, bits                                   | 2x354                                                  |
|                 | TF3, bits                                   | 4 x354                                                 |
|                 | TF4, bits                                   | 8 x354                                                 |
|                 | TF5, bits                                   | 12 x354                                                |
|                 | TF6, bits                                   | N/A (alt. 16x354)                                      |
|                 | TF7, bits                                   | N/A (alt. 20x354)                                      |
|                 | TF8, bits                                   | N/A (alt. 24x354)                                      |
|                 | TTI, ms                                     | 10(alt. 20)                                            |
|                 | Coding type                                 | TC                                                     |
|                 | CRC, bit                                    | 16                                                     |
|                 | Max number of bits/TTI after channel coding | 13332(alt. 26664)                                      |
|                 | RM attribute                                | 110-150                                                |

6.10.2.4.2.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.2.2.2.1.3 TFCS

| PDSCH      | TFCS | 6 (alt.9)                                          |
|------------|------|----------------------------------------------------|
|            | size |                                                    |
|            | TFCS | 384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5        |
|            |      | (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8) |
| DPCH       | TFCS | 2                                                  |
| Downlink   | size |                                                    |
| associated | TFCS | SRBs for DCCH = TF0, TF1                           |
| with       |      |                                                    |
| PDSCH      |      |                                                    |

## 6.10.2.4.2.2.2.2 Physical channel parameters

| PDSCH      | RAB or SRB, TrCh |                           | Interactive or background / 384 kbps / PS RAB, DSCH |
|------------|------------------|---------------------------|-----------------------------------------------------|
|            | DTX position     |                           | N/A (SingleTrCH)                                    |
|            | Minimum sp       | oreading factor           | 8                                                   |
| DPCH       | RAB or SRB, TrCh |                           | 3.4 kbps SRB for DCCH, DCH                          |
| Downlink   | DTX position     |                           | N/A (SingleTrCH)                                    |
| associated | Spreading factor |                           | 256                                                 |
| with       | DPCCH            | Number of TFCI bits/slot  | 2                                                   |
| PDSCH      |                  | Number of TPC bits/slot   | 2                                                   |
|            |                  | Number of Pilot bits/slot | 4                                                   |
|            | DPDCH            | Number of data bits/slot  | 12                                                  |
|            |                  | Number of data bits/frame | 180                                                 |

6.10.2.4.2.3 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.3.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.2.3.2 Downlink

6.10.2.4.2.3.2.1 Transport channel parameters

## 6.10.2.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

| Higher<br>layer | RAB/Signa            | lling RB  | RAB                                                    |
|-----------------|----------------------|-----------|--------------------------------------------------------|
| RLC             | Logical channel type |           | DTCH                                                   |
|                 | RLC mode             |           | AM                                                     |
|                 | Payload siz          | zes, bit  | 640                                                    |
|                 | Max data ra          | ate, bps  | 2048000                                                |
|                 | AMD PDU header, bit  |           | 16                                                     |
| MAC             | MAC header, bit      |           | 18                                                     |
|                 | MAC multiplexing     |           | Logical channel multiplexing on a frame by frame basis |
| Layer 1         | TrCH type            |           | DSCH                                                   |
|                 | TB sizes, bit        |           | 674                                                    |
|                 | TFS                  | TF0, bits | 0x674                                                  |
|                 |                      | TF1, bits | 1x674                                                  |
|                 |                      | TF2, bits | 2x674                                                  |
|                 |                      | TF3, bits | 4 x674                                                 |
|                 |                      | TF4, bits | 8 x674                                                 |
|                 |                      | TF5, bits | 12x674                                                 |
|                 |                      | TF6, bits | 16x674                                                 |
|                 |                      | TF7, bits | 20x674                                                 |
|                 |                      | TF8, bits | 24x674                                                 |

| Higher<br>layer | RAB/Signalling RB                           | RAB                 |
|-----------------|---------------------------------------------|---------------------|
|                 | TF9, bits                                   | 28x674              |
|                 | TF10, bits                                  | 32x674              |
|                 | TF11, bits                                  | N/A (alt. 36x674)   |
|                 | TF12, bits                                  | N/A (alt. 40x674)   |
|                 | TF13, bits                                  | N/A (alt. 44x674)   |
|                 | TF14, bits                                  | N/A (alt. 48x674)   |
|                 | TF15, bits                                  | N/A (alt. 52x674)   |
|                 | TF16, bits                                  | N/A (alt. 56x674)   |
|                 | TF17, bits                                  | N/A (alt. 60x674)   |
|                 | TF18, bits                                  | N/A (alt. 64x674)   |
|                 | TTI, ms                                     | 10(alt. 20)         |
|                 | Coding type                                 | TC                  |
|                 | CRC, bit                                    | 16                  |
|                 | Max number of bits/TTI after channel coding | 66300 (alt. 132588) |
|                 | RM attribute                                | 130-170             |

6.10.2.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.2.3.2.1.3 TFCS

| PDSCH                       | TFCS<br>size | 11 (alt.19)                                                                                                                                                                          |
|-----------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | TFCS         | 2048 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18) |
| DPCH<br>Downlink            | TFCS<br>size | 2                                                                                                                                                                                    |
| associated<br>with<br>PDSCH | TFCS         | SRBs for DCCH = TF0, TF1                                                                                                                                                             |

## 6.10.2.4.2.3.2.2 Physical channel parameters

| PDSCH      | RAB or SRB, TrCh DTX position |                           | Interactive or background / 2048 kbps / PS RAB, DSCH |
|------------|-------------------------------|---------------------------|------------------------------------------------------|
|            |                               |                           | N/A (SingleTrCH)                                     |
|            | Minimum s                     | oreading factor           | 4                                                    |
| DPCH       | RAB or SRB, TrCh              |                           | 3.4 kbps SRB for DCCH, DCH                           |
| Downlink   | DTX position                  |                           | N/A (SingleTrCH)                                     |
| associated | Spreading factor              |                           | 256                                                  |
| with       | DPCCH                         | Number of TFCI bits/slot  | 2                                                    |
| PDSCH      |                               | Number of TPC bits/slot   | 2                                                    |
|            |                               | Number of Pilot bits/slot | 4                                                    |
|            | DPDCH                         | Number of data bits/slot  | 12                                                   |
|            |                               | Number of data bits/frame | 180                                                  |

6.10.2.4.2.4 Void

6.10.2.4.2.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background

/ UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.5.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.5.2 Downlink

6.10.2.4.2.5.2.1 Transport channel parameters

6.10.2.4.2.5.2.1.1 Transport channel parameters for Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.5.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.2.4.2.2.2.1.1.

6.10.2.4.2.5.2.1.3 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.2.5.2.1.4 TFCS

| PDSCH      | TFCS | 6 (alt.9)                                                         |  |
|------------|------|-------------------------------------------------------------------|--|
|            | size |                                                                   |  |
|            | TFCS | 384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5                       |  |
|            |      | (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8)                |  |
| DPCH       | TFCS | 6                                                                 |  |
| Downlink   | size |                                                                   |  |
| associated | TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =             |  |
| with       |      | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), |  |
| PDSCH      |      | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)  |  |

## 6.10.2.4.2.5.2.2 Physical channel parameters

| PDSCH                          | RAB or SRB, TrCh         |                           | Interactive or background / 384 kbps / PS RA                                          | B, DSCH |
|--------------------------------|--------------------------|---------------------------|---------------------------------------------------------------------------------------|---------|
|                                | DTX positi               | on                        | N/A (SingleTrCH)                                                                      |         |
|                                | Minimum spreading factor |                           | 8                                                                                     |         |
| DPCH<br>Downlink<br>associated | RAB or SRB, TrCh         |                           | Conversational / speech / 12.2 kbps / CS<br>RAB, DCH<br>+ 3.4 kbps SRBs for DCCH. DCH |         |
| with                           | DTX position             |                           | Fixed                                                                                 |         |
| PDSCH                          | Spreading factor         |                           | 128                                                                                   |         |
|                                | DPCCH                    | Number of TFCI bits/slot  | 2                                                                                     |         |
|                                |                          | Number of TPC bits/slot   | 2                                                                                     |         |
|                                |                          | Number of Pilot bits/slot | 4                                                                                     |         |
|                                | DPDCH                    | Number of data bits/slot  | 32                                                                                    |         |
|                                |                          | Number of data bits/frame | 480                                                                                   |         |

6.10.2.4.2.6 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.6.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.6.2 Downlink

6.10.2.4.2.6.2.1 Transport channel parameters

6.10.2.4.2.6.2.1.1 Transport channel parameters for Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.6.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.2.4.2.3.2.1.1.

6.10.2.4.2.6.2.1.3 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.2.6.2.1.4 TFCS

|            | TFCS<br>size | 11 (alt.19)                                                                                                                                                                         |
|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | TFCS         | 2048 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18) |
| DPCH       | TFCS         | 6                                                                                                                                                                                   |
| Downlink   | size         |                                                                                                                                                                                     |
| associated | TFCS         | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =                                                                                                                               |
| with       |              | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),                                                                                                                   |
| PDSCH      |              | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)                                                                                                                    |

## 6.10.2.4.2.6.2.2 Physical channel parameters

| PDSCH                          | RAB or SF                | RB, TrCh                  | Interactive or background / 2048 kbps / PS R                                          | RAB, DSCH |
|--------------------------------|--------------------------|---------------------------|---------------------------------------------------------------------------------------|-----------|
|                                | DTX position             |                           | N/A (SingleTrCH)                                                                      |           |
|                                | Minimum spreading factor |                           | 4                                                                                     |           |
| DPCH<br>Downlink<br>associated | RAB or SRB, TrCh         |                           | Conversational / speech / 12.2 kbps / CS<br>RAB, DCH<br>+ 3.4 kbps SRBs for DCCH. DCH |           |
| with                           | DTX positi               | on                        | Fixed                                                                                 |           |
| PDSCH                          | Spreading factor         |                           | 128                                                                                   |           |
|                                | DPCCH                    | Number of TFCI bits/slot  | 2                                                                                     |           |
|                                |                          | Number of TPC bits/slot   | 2                                                                                     |           |
|                                |                          | Number of Pilot bits/slot | 4                                                                                     |           |
|                                | DPDCH                    | Number of data bits/slot  | 32                                                                                    |           |
|                                |                          | Number of data bits/frame | 480                                                                                   |           |

## 6.10.2.4.3 Combinations on SCCPCH

6.10.2.4.3.1 Stand-alone signalling RB for PCCH

6.10.2.4.3.1.1 Transport channel parameters

## 6.10.2.4.3.1.1.1 Transport channel parameter of SRB for PCCH

| Higher layer | RAB/signalling RB                           | SRB               |
|--------------|---------------------------------------------|-------------------|
|              | User of Radio Bearer                        | RRC               |
| RLC          | Logical channel type                        | PCCH              |
|              | RLC mode                                    | TM                |
|              | Payload sizes, bit                          | 240 (alt. 80)     |
|              | Max data rate, bps                          | 24000 (alt. 8000) |
|              | TrD PDU header, bit                         | 0                 |
| MAC          | MAC header, bit                             | 0                 |
|              | MAC multiplexing                            | N/A               |
| Layer 1      | TrCH type                                   | PCH               |
|              | TB sizes, bit                               | 240 (alt. 80)     |
|              | TFS TF0, bts                                | 0x240 (alt. 0x80) |
|              | TF1, bits                                   | 1x240 (alt. 1x80) |
|              | TTI, ms                                     | 10                |
|              | Coding type                                 | CC 1/2            |
|              | CRC, bit                                    | 16                |
|              | Max number of bits/TTI before rate matching | 528 (alt. 208)    |
|              | RM attribute                                | 210-250           |

## 6.10.2.4.3.1.1.2 TFCS

| TFCS size | 2                        |
|-----------|--------------------------|
| TFCS      | SRBs for PCCH = TF0, TF1 |

## 6.10.2.4.3.1.2 Physical channel parameters

| SCCPCH | TFCS size                 | 2                |
|--------|---------------------------|------------------|
|        | DTX position              | N/A (SingleTrCH) |
|        | Spreading factor          | 128(alt. 256)    |
|        | Number of TFCI bits/slot  | 0                |
|        | Number of Pilot bits/slot | 0                |
|        | Number of data bits/slot  | 40(alt. 20)      |
|        | Number of data bits/frame | 600(alt. 300)    |

6.10.2.4.3.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.10.2.4.3.2.1 Transport channel parameters

## 6.10.2.4.3.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

| Higher  | RAB/signalling RB                           | RAB                         |
|---------|---------------------------------------------|-----------------------------|
| layer   | User of Radio Bearer                        | Interactive/ Background RAB |
| RLC     | Logical channel type                        | DTCH                        |
|         | RLC mode                                    | AM                          |
|         | Payload sizes, bit                          | 320                         |
|         | Max data rate, bps                          | 32000                       |
|         | AMD PDU header, bit                         | 16                          |
| MAC     | MAC header, bit                             | 24                          |
| IVIAC   | MAC multiplexing                            | N/A                         |
| Layer 1 | TrCH type                                   | FACH                        |
|         | TB sizes, bit                               | 360                         |
|         | TFS TF0, bits                               | 0x360                       |
|         | TF1, bits                                   | 1x360                       |
|         | TTI, ms                                     | 10                          |
|         | Coding type                                 | TC                          |
|         | CRC, bit                                    | 16                          |
|         | Max number of bits/TTI before rate matching | 1140                        |
|         | RM attribute                                | 110-150                     |

## 6.10.2.4.3.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| Higher  | RAB/signalling RB             |                   | SRB#0                          | SRB#1                                        | SRB#2                 | SRB#3                 | SRB#4                 | SRB#5                 |  |
|---------|-------------------------------|-------------------|--------------------------------|----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| layer   | User of Radio Bearer          |                   | RRC                            | RRC                                          | RRC                   | NAS_DT                | NAS_DT                | RRC                   |  |
|         |                               |                   |                                |                                              |                       | High prio             | Low prio              |                       |  |
| RLC     | Logical chann                 | nel type          | CCCH                           | DCCH                                         | DCCH                  | DCCH                  | DCCH                  | BCCH                  |  |
|         | RLC mode                      |                   | UM                             | UM                                           | AM                    | AM                    | AM                    | TM                    |  |
|         | Payload sizes                 | s, bit            | 152                            | 136 or 120<br>(note)                         | 128                   | 128                   | 128                   | 166                   |  |
|         | Max data rate, bps            |                   | 30400 (alt.<br>45600)          | 27200 or<br>2400 (alt.<br>40800 or<br>36000) | 25600 (alt.<br>38400) | 25600 (alt.<br>38400) | 25600 (alt.<br>38400) | 33200 (alt.<br>49800) |  |
|         | AMD/UMD/TrD PDU header, bit   |                   | 8                              | 8                                            | 16                    | 16                    | 16                    | 0                     |  |
| MAC     | MAC header, bit               |                   | 8                              | 24 or 40                                     | 24                    | 24                    | 24                    | 2                     |  |
| IVIAC   | MAC multiplexing              |                   | 6 logical channel multiplexing |                                              |                       |                       |                       |                       |  |
| Layer 1 | TrCH type                     |                   | FACH                           |                                              |                       |                       |                       |                       |  |
|         | TB sizes, bit                 |                   |                                | 168                                          |                       |                       |                       |                       |  |
|         |                               | TF0, bits         | 0x168                          |                                              |                       |                       |                       |                       |  |
|         | TFS                           | TF1, bits         | 1x168                          |                                              |                       |                       |                       |                       |  |
|         | 1173                          | TF2, bits         | 2x168                          |                                              |                       |                       |                       |                       |  |
|         |                               | TF3, bits         | N/A (alt. 3x168)               |                                              |                       |                       |                       |                       |  |
|         | TTI, ms                       |                   | 10                             |                                              |                       |                       |                       |                       |  |
|         | Coding type                   |                   | CC 1/2                         |                                              |                       |                       |                       |                       |  |
|         | CRC, bit                      |                   | 16                             |                                              |                       |                       |                       |                       |  |
|         | Max number of bits/TTI before |                   | 752 (alt. 1136)                |                                              |                       |                       |                       |                       |  |
|         | rate matching                 |                   | · · ·                          |                                              |                       |                       |                       |                       |  |
|         | RM attribute                  |                   | 200-240                        |                                              |                       |                       |                       |                       |  |
| NOTE:   | MAC header s                  | ize and PLC paylo | ad size depe                   | nd on use of                                 | U-RNTI or C           | -RNTI.                |                       |                       |  |

#### 6.10.2.4.3.2.1.3 TFCS

| TFCS size | 4 or 5, (alt. 4, 5 or 6)                                                                            |
|-----------|-----------------------------------------------------------------------------------------------------|
| TFCS      | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB) =                                                             |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note)                                   |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note))         |
| NOTE: T   | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for |
| Т         | TFC of (TF2, TF0).                                                                                  |

## 6.10.2.4.3.2.2 Physical channel parameters

| SCCPCH | DTX position              | Flexible |
|--------|---------------------------|----------|
|        | Spreading factor          | 64       |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 72       |
|        | Number of data bits/frame | 1080     |

6.10.2.4.3.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.2.4.3.2a.1 Transport channel parameters

6.10.2.4.3.2a.1.1 Transport channel parameters for Interactive or background / 32 kbps / PS RAB + 32 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB                            | RAB   |
|-----------------|---------------------------------------------|--------------------------------|-------|
| RLC             | Logical channel type                        | DTCH                           | DTCH  |
|                 | RLC mode                                    | AM                             | AM    |
|                 | Payload sizes, bit                          | 320                            | 320   |
|                 | Max data rate, bps                          | 32000                          | 32000 |
|                 | AMD PDU header, bit                         | 16                             | 16    |
| MAC             | MAC header, bit                             | 24                             | 24    |
|                 | MAC multiplexing                            | 2 logical channel multiplexing |       |
| Layer 1         | TrCH type                                   | FAC                            | CH    |
|                 | TB sizes, bit                               | 36                             | 0     |
|                 | TFS TF0, bits                               | 0x360                          |       |
|                 | TF1, bits                                   | 1x360                          |       |
|                 | TTI, ms                                     | 10                             |       |
|                 | Coding type                                 | TC                             |       |
|                 | CRC, bit                                    | 16                             |       |
|                 | Max number of bits/TTI after channel coding | 1140                           |       |
|                 | RM attribute                                | 110-                           | 150   |

6.10.2.4.3.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

#### 6.10.2.4.3.2a.1.3 TFCS

| TFCS size | 4 or 5 (alt. 4, 5 or 6)                                                                           |
|-----------|---------------------------------------------------------------------------------------------------|
| TFCS      | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB + 32kbps RAB) =                                              |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note)                                 |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note))       |
| NOTE:     | ese TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for |
|           | C of (TF2, TF0).                                                                                  |

## 6.10.2.4.3.2a.2 Physical channel parameters

| SCCPCH                   | DTX position              | Flexible |
|--------------------------|---------------------------|----------|
|                          | Spreading factor          | 64       |
|                          | Number of TFCI bits/slot  | 8        |
|                          | Number of Pilot bits/slot | 0        |
| Number of data bits/slot |                           | 72       |
|                          | Number of data bits/frame | 1080     |

6.10.2.4.3.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.2.4.3.3.1 Transport channel parameters

6.10.2.4.3.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1

6.10.2.4.3.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1

6.10.2.4.3.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

## 6.10.2.4.3.3.1.4 TFCS

| TFCS size | e 6, 7 or 8 for 240 bits PCH TrBlk size and TF3 not used                                            |  |  |  |
|-----------|-----------------------------------------------------------------------------------------------------|--|--|--|
|           | (alt 6, 7, 8 or 9 for 80 bits PCH TrBlk size and TF3 not used)                                      |  |  |  |
|           | (alt 6, 7, 8 or 9 for 240 bits PCH TrBlk size and TF3 used)                                         |  |  |  |
|           | (alt. 6, 7, 8, 9, 10, or 11 for 80 bits PCH TrBlk size and TF3 used)                                |  |  |  |
| TFCS      | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB) =                                            |  |  |  |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,          |  |  |  |
|           | TF2, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size       |  |  |  |
|           | and TF3 not used                                                                                    |  |  |  |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,    |  |  |  |
|           | TF2, TF0] (see note), (TF0, TF0, TF1), [TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for   |  |  |  |
|           | 80 bits PCH TrBlk size and TF3 not used)                                                            |  |  |  |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,    |  |  |  |
|           | TF2, TF0] (see note), [TF0, TF3, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for   |  |  |  |
|           | 240 bits PCH TrBlk size and TF3 used)                                                               |  |  |  |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,    |  |  |  |
|           | TF2, TF0] (see note), [TF0, TF3, TF0] (see note), [TF1, TF3, TF0] (see note), (TF0, TF1),           |  |  |  |
|           | [TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for 80 bits PCH TrBlk size and TF3 used)     |  |  |  |
| NOTE:     | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for |  |  |  |
|           | TFC of (TF0, TF2, TF0).                                                                             |  |  |  |

## 6.10.2.4.3.3.2 Physical channel parameters

| SCCPCH                   | DTX position              | Flexible |
|--------------------------|---------------------------|----------|
|                          | Spreading factor          | 64       |
| Number of TFCI bits/slot |                           | 8        |
|                          | Number of Pilot bits/slot | 0        |
|                          | Number of data bits/slot  | 72       |
|                          | Number of data bits/frame | 1080     |

6.10.2.4.3.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.10.2.4.3.4.1 Transport channel parameters

## 6.10.2.4.3.4.1.1 Transport channel parameters of RB for CTCH

| Higher layer | RAB/signalling RB                  | N/A     |
|--------------|------------------------------------|---------|
|              | User of Radio Bearer               | BMC     |
| RLC          | Logical channel type               | CTCH    |
|              | RLC mode                           | UM      |
|              | Payload sizes, bit                 | 152     |
|              | Max data rate, bps                 | 15200   |
|              | UMD PDU header, bit                | 8       |
| MAC          | MAC header, bit                    | 8       |
|              | MAC multiplexing                   | N/A     |
| Layer 1      | TrCH type                          | FACH    |
| -            | TB sizes, bit                      | 168     |
|              | TFS TF0, bts                       | 0x168   |
|              | TF1, bits                          | 1x168   |
|              | TTI, ms                            | 10      |
|              | Coding type                        | CC 1/3  |
|              | CRC, bit                           | 16      |
|              | Max number of bits/TTI before rate | 576     |
|              | matching                           |         |
|              | RM attribute                       | 200-240 |

## 6.10.2.4.3.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| Higher  | er RAB/signalling RB        |      | SRB#0                          | SRB#5 |  |
|---------|-----------------------------|------|--------------------------------|-------|--|
| layer   | User of Radio Bear          | er   | RRC                            | RRC   |  |
| RLC     | Logical channel type        |      | CCCH                           | BCCH  |  |
|         | RLC mode                    |      | UM                             | TM    |  |
|         | Payload sizes, bit          |      | 152                            | 166   |  |
|         | Max data rate, bps          |      | 15200                          | 16600 |  |
|         | AMD/UMD/TrD PDU header, bit |      | 8                              | 0     |  |
| MAC     | MAC header, bit             |      | 8                              | 2     |  |
| IVIAC   | MAC multiplexing            |      | 2 logical channel multiplexing |       |  |
| Layer 1 | TrCH type                   |      | FACH                           |       |  |
|         | TB sizes, bit               |      | 168                            |       |  |
|         | TFS TF0,                    | bits | 0x168                          |       |  |
|         | TF1,                        | bits | 1x168                          |       |  |
|         | TTI, ms                     |      | 10                             |       |  |
|         | Coding type                 |      | CC 1/3                         |       |  |
|         | CRC, bit                    |      | 16                             |       |  |
|         | Max number of bits/TTI      |      | 576                            |       |  |
|         | before rate matchir         | ng   |                                |       |  |
|         | RM attribute                |      |                                | )-240 |  |

## 6.10.2.4.3.4.1.3 TFCS

| TFCS size | 3                                    |  |
|-----------|--------------------------------------|--|
| TFCS      | (SRBs for CCCH/ BCCH, RB for CTCH) = |  |
|           | (TF0, TF0), (TF1, TF0), (TF0, TF1)   |  |

## 6.10.2.4.3.4.2 Physical channel parameters

| SCCPCH | DTX position              | Flexible |
|--------|---------------------------|----------|
|        | Spreading factor          | 128      |
|        | Number of TFCI bits/slot  | 2        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 38       |
|        | Number of data bits/frame | 570      |

## 6.10.2.4.4 Combinations on PRACH

6.10.2.4.4.1 Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.2.4.4.1.1 Transport channel parameters

# 6.10.2.4.4.1.1.1 Transport channel parameter for Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

| Higher | RAB/signalling RB           | RAB                               | SRB#0 | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|--------|-----------------------------|-----------------------------------|-------|-------|-------|---------------------|--------------------|
| layer  | User of Radio Bearer        | Interactive/<br>Background<br>RAB | RRC   | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC    | Logical channel type        | DTCH                              | CCCH  | DCCH  | DCCH  | DCCH                | DCCH               |
|        | RLC mode                    | AM                                | TM    | UM    | AM    | AM                  | AM                 |
|        | Payload sizes, bit          | 320                               | 166   | 136   | 128   | 128                 | 128                |
|        | Max data rate, bps          | 32000                             | 16600 | 13600 | 12800 | 12800               | 12800              |
|        | AMD/UMD/TrD PDU header, bit | 16                                | 0     | 8     | 16    | 16                  | 16                 |

| Higher  | RAB/signalling RB                                          | RAB                               | SRB#0                          | SRB#1             | SRB#2             | SRB#3               | SRB#4              |  |  |  |
|---------|------------------------------------------------------------|-----------------------------------|--------------------------------|-------------------|-------------------|---------------------|--------------------|--|--|--|
| layer   | User of Radio Bearer                                       | Interactive/<br>Background<br>RAB | RRC                            | RRC               | RRC               | NAS_DT<br>High prio | NAS_DT<br>Low prio |  |  |  |
| MAC     | MAC header, bit                                            | 24                                | 2                              | 24                | 24                | 24                  | 24                 |  |  |  |
|         | MAC multiplexing                                           |                                   | 6 logical channel multiplexing |                   |                   |                     |                    |  |  |  |
| Layer 1 | TrCH type                                                  |                                   |                                | RA                | CH                |                     |                    |  |  |  |
|         | TB sizes, bit                                              | 360                               | 168                            | 168               | 168               | 168                 | 168                |  |  |  |
|         | TFS TF0, bits                                              |                                   | 1x168                          |                   |                   |                     |                    |  |  |  |
|         | TF1, bits                                                  |                                   | 1x360                          |                   |                   |                     |                    |  |  |  |
|         | TTI, ms                                                    |                                   | 20 (alt. 10)                   |                   |                   |                     |                    |  |  |  |
|         | Coding type                                                | CC 1/2                            |                                |                   |                   |                     |                    |  |  |  |
|         | CRC, bit                                                   | 16                                |                                |                   |                   |                     |                    |  |  |  |
|         | Max number of bits/TTI after channel coding                | 768                               | 384                            | 384               | 384               | 384                 | 384                |  |  |  |
|         | Max number of bits/<br>Radio frame before<br>rate matching | 384 (alt.<br>768)                 | 192 (alt.<br>384)              | 192 (alt.<br>384) | 192 (alt.<br>384) | 192 (alt.<br>384)   | 192 (alt.<br>384)  |  |  |  |

## 6.10.2.4.4.1.1.2 TFCS

| TFCS size | 2                                        |
|-----------|------------------------------------------|
| TFCS      | 32 kbps + SRBs for CCCH/ DCCH = TF0, TF1 |

## 6.10.2.4.4.1.2 Physical channel parameters

| PRACH | Minimum Spreading factor            | 64 (alt. 32)    |
|-------|-------------------------------------|-----------------|
|       | Max number of data bits/radio frame | 600 (alt. 1200) |
|       | Puncturing Limit                    | 1               |

6.10.2.4.4.2 Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.2.4.4.2.1 Transport channel parameters

6.10.2.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB, Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

| Higher | RAB/signalling RB       | RAB                               | RAB                               | SRB#0 | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|--------|-------------------------|-----------------------------------|-----------------------------------|-------|-------|-------|---------------------|--------------------|
| layer  | User of Radio<br>Bearer | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC   | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC    | Logical channel         | DTCH                              | DTCH                              | CCCH  | DCCH  | DCCH  | DCCH                | DCCH               |
|        | type                    |                                   |                                   |       |       |       |                     |                    |
|        | RLC mode                | AM                                | AM                                | TM    | UM    | AM    | AM                  | AM                 |
|        | Payload sizes, bit      | 320                               | 320                               | 166   | 136   | 128   | 128                 | 128                |
|        | Max data rate, bps      | 32000                             | 32000                             | 16600 | 13600 | 12800 | 12800               | 12800              |
|        | AMD/UMD/TrD             | 16                                | 16                                | 0     | 8     | 16    | 16                  | 16                 |
|        | PDU header, bit         |                                   |                                   |       |       |       |                     |                    |

| Higher | RAB/signalling RB                                    | RAB                               | RAB                               | SRB#0             | SRB#1             | SRB#2             | SRB#3               | SRB#4              |  |
|--------|------------------------------------------------------|-----------------------------------|-----------------------------------|-------------------|-------------------|-------------------|---------------------|--------------------|--|
| layer  | User of Radio<br>Bearer                              | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC               | RRC               | RRC               | NAS_DT<br>High prio | NAS_DT<br>Low prio |  |
| MAC    | MAC header, bit                                      | 24                                | 24                                | 2                 | 24                | 24                | 24                  | 24                 |  |
|        | MAC multiplexing                                     |                                   |                                   | 7 logical         | channel mult      | iplexing          |                     |                    |  |
| Layer  | TrCH type                                            |                                   |                                   |                   | RACH              |                   |                     |                    |  |
| 1      | TB sizes, bit                                        | 360                               | 360                               | 168               | 168               | 168               | 168                 | 168                |  |
|        | TFS TF0, bits                                        |                                   |                                   |                   | 1x168             |                   |                     |                    |  |
|        | TF1, bits                                            |                                   | 1x360                             |                   |                   |                   |                     |                    |  |
|        | TTI, ms                                              | 20 (alt. 10)                      |                                   |                   |                   |                   |                     |                    |  |
|        | Coding type                                          | CC 1/2                            |                                   |                   |                   |                   |                     |                    |  |
|        | CRC, bit                                             |                                   |                                   |                   | 16                |                   |                     |                    |  |
|        | Max number of bits/TTI after channel coding          | 768                               | 768                               | 384               | 384               | 384               | 384                 | 384                |  |
|        | Max number of bits/ Radio frame before rate matching | 384 (alt.<br>768)                 | 384 (alt<br>768)                  | 192 (alt.<br>384) | 192 (alt.<br>384) | 192 (alt.<br>384) | 192 (alt.<br>384)   | 192 (alt.<br>384)  |  |

## 6.10.2.4.4.2.1.2 TFCS

| TFCS size | 2                                                         |
|-----------|-----------------------------------------------------------|
| TFCS      | 32 kbps RAB+ 32 kbps RAB + SRBs for CCCH/ DCCH = TF0, TF1 |

## 6.10.2.4.4.2.2 Physical channel parameters

| PRACH | Minimum Spreading factor            | 64 (alt. 32)    |
|-------|-------------------------------------|-----------------|
|       | Max number of data bits/radio frame | 600 (alt. 1200) |
|       | Puncturing Limit                    | 1               |

## 6.10.2.4.5 Combinations on DPCH and HS-PDSCH

6.10.2.4.5.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.1.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.5.1.2 Downlink

6.10.2.4.5.1.2.1 Transport channel parameters

6.10.2.4.5.1.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB             | RAB                             |
|--------------|-------------------------------|---------------------------------|
| RLC          | Logical channel type          | DTCH                            |
|              | RLC mode                      | AM                              |
|              | Payload sizes, bit            | 320 (alt. 640)                  |
|              | Max data rate, bps            | depends on UE category<br>NOTE1 |
|              | AMD PDU header, bit           | 16                              |
| MAC          | MAC-d header, bit             | 0                               |
|              | MAC multiplexing              | N/A                             |
|              | MAC-d PDU size, bit           | 336 (alt. 656)                  |
|              | MAC-hs header fixed part, bit | 21                              |
| Layer 1      | TrCH type                     | HS-DSCH                         |
|              | TTI                           | 2 ms                            |
|              | Coding type                   | TC                              |
|              | CRC, bit                      | 24                              |

NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).

6.10.2.4.5.1.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.1.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.1.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.1.2.2 Physical channel parameters

6.10.2.4.5.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.1.2.2.21 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

#### UE HS-DSCH Physical Layer category 1:

| HS-PDSCH | Number of processes | 2, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.2Mbps, (alt. 400kbps)           |

UE HS-DSCH Physical Layer category 2:

| HS-PDSCH | Number of processes | 2, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.2Mbps, (alt. 600kbps)]          |

### UE HS-DSCH Physical Layer category 3:

| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8Mbps, (alt. 900kbps)           |

## UE HS-DSCH Physical Layer category 4:

| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8Mbps, (alt. 1.2Mbps)           |

## UE HS-DSCH Physical Layer category 5:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.65Mbps, (alt. 3.6Mbps)          |

## UE HS-DSCH Physical Layer category 6:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.65Mbps, (alt. 3.65Mbps)         |

## UE HS-DSCH Physical Layer category 7:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 7.3Mbps, (alt. 7.2Mbps)           |

## UE HS-DSCH Physical Layer category 8:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 7.3Mbps, (alt. 7.3Mbps)           |

## UE HS-DSCH Physical Layer category 9:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 10.2Mbps, (alt. 10.2Mbps)         |

### UE HS-DSCH Physical Layer category 10:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 14.4Mbps, (alt. 10.8Mbps)         |

### UE HS-DSCH Physical Layer category 11:

| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 900kbps, (alt. 450kbps)           |

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#### UE HS-DSCH Physical Layer category 12:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8Mbps, (alt. 1.8Mbps)           |

6.10.2.4.5.2 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS

RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.2.1 Uplink

See clause 6.10.2.4.1.34.1.

6.10.2.4.5.2.2 Downlink

6.10.2.4.5.2.2.1 Transport channel parameters

6.10.2.4.5.2.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher<br>Layer | RAB/Signalling RB             | RAB                             |
|-----------------|-------------------------------|---------------------------------|
| RLC             | Logical channel type          | DTCH                            |
|                 | RLC mode                      | AM                              |
|                 | Payload sizes, bit            | 320 (alt. 640)                  |
|                 | Max data rate, bps            | depends on UE category<br>NOTE1 |
|                 | AMD PDU header, bit           | 16                              |
| MAC             | MAC-d header, bit             | 0                               |
|                 | MAC multiplexing              | N/A                             |
|                 | MAC-d PDU size, bit           | 336 (alt. 656)                  |
|                 | MAC-hs header fixed part, bit | 21                              |
| Layer 1         | TrCH type                     | HS-DSCH                         |
|                 | TTI                           | 2 ms                            |
|                 | Coding type                   | TC                              |
|                 | CRC, bit                      | 24                              |

NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).

6.10.2.4.5.2.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.2.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.2.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.2.2.2 Physical channel parameters

6.10.2.4.5.2.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.10.2.4.5.2.2.2.2 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

#### UE HS-DSCH Physical Layer category 1:

| HS-PDSCH | Number of processes | 2, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.2Mbps, (alt. 400kbps)           |

### UE HS-DSCH Physical Layer category 2:

| HS-PDSCH | Number of processes | 2, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.2Mbps, (alt. 600kbps)]          |

### UE HS-DSCH Physical Layer category 3:

| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8Mbps, (alt. 900kbps)           |

#### UE HS-DSCH Physical Layer category 4:

| I | HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|---|----------|---------------------|-----------------------------------|
|   |          | Process memory size | Split equally among all processes |
|   |          | Max Data Rate       | 1.8Mbps, (alt. 1.2Mbps)           |

## UE HS-DSCH Physical Layer category 5:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.65Mbps, (alt. 3.6Mbps)          |

### UE HS-DSCH Physical Layer category 6:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.65Mbps, (alt. 3.65Mbps)         |

### UE HS-DSCH Physical Layer category 7:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 7.3Mbps, (alt. 7.2Mbps)           |

### UE HS-DSCH Physical Layer category 8:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 7.3Mbps, (alt. 7.3Mbps)           |

#### UE HS-DSCH Physical Layer category 9:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 10.2Mbps, (alt. 10.2Mbps)         |

### UE HS-DSCH Physical Layer category 10:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 14.4Mbps, (alt. 10.8Mbps)         |

### UE HS-DSCH Physical Layer category 11:

| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 900kbps, (alt. 450kbps)           |

## UE HS-DSCH Physical Layer category 12:

| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|----------|---------------------|-----------------------------------|
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8Mbps, (alt. 1.8Mbps)           |

## 6.10.3 RAB and signalling RB for TDD

## 6.10.3.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

Table 6.10.3.1.1: Prioritised RABs.

| #   | Traffic class <sup>[3]</sup> SSD <sup>[3]</sup> Max. rate, kbps |         | CS/PS                                                     |    |
|-----|-----------------------------------------------------------------|---------|-----------------------------------------------------------|----|
| 1   | Conversational                                                  | Speech  | UL:12.2 DL:12.2                                           | CS |
| 1a  | Conversational                                                  | Speech  | UL: (12.2 7.95 5.9<br>4.75) DL(12.2 7.95<br>5.9 4.75)     | cs |
| 2   | Conversational                                                  | Speech  | UL:10.2 DL:10.2                                           | CS |
| 2a  | Conversational                                                  | Speech  | UL:(10.2 , 6.7, 5.9,<br>4.75) DL:10.2, 6.7,<br>5.9, 4.75) | CS |
| 3   | Conversational                                                  | Speech  | UL:7.95 DL:7.95                                           | CS |
| 4   | Conversational                                                  | Speech  | UL:7.4 DL:7.4                                             | CS |
| 4a  | Conversational                                                  | Speech  | UL:(12.2 7.95 5.9<br>4.75, DL:(12.2 7.95<br>5.9 4.75)     | CS |
| 5   | Conversational                                                  | Speech  | UL:6.7 DL:6.7                                             | CS |
| 6   | Conversational                                                  | Speech  | UL:5.9 DL:5.9                                             | CS |
| 7   | Conversational                                                  | Speech  | UL:5.15 DL:5.15                                           | CS |
| 8   | Conversational                                                  | Speech  | UL:4.75 DL:4.75                                           | CS |
| 9   | Conversational                                                  | Unknown | UL:28.8 DL:28.8                                           | CS |
| 10  | Conversational                                                  | Unknown | UL:64 DL:64                                               | CS |
| 11  | Conversational                                                  | Unknown | UL:32 DL:32                                               | CS |
| 11a | Conversational                                                  | Unknown | UL:8 DL:8                                                 | CS |
| 12  | Streaming                                                       | Unknown | UL:14.4 DL:14.4                                           | CS |
| 13  | Streaming                                                       | Unknown | UL:28.8 DL:28.8                                           | CS |
| 14  | Streaming                                                       | Unknown | UL:57.6 DL:57.6                                           | CS |
| 15  | Void                                                            |         |                                                           |    |
| 15a | Streaming                                                       | Unknown | UL:16 DL:64                                               | PS |
| 16  | Void                                                            |         |                                                           |    |
| 17  | Void                                                            |         |                                                           |    |
| 18  | Void                                                            |         |                                                           |    |
| 19  | Void                                                            |         |                                                           |    |
| 20  | Interactive or Background                                       | N/A     | UL:32 DL:8                                                | PS |
| 20a | Interactive or Background                                       | N/A     | UL:8 DL:8                                                 | PS |
| 20b | Interactive or Background                                       | N/A     | UL:16 DL:16                                               | PS |
| 20c | Interactive or Background                                       | N/A     | UL:32 DL:32                                               | PS |
| 21  | Void                                                            |         |                                                           |    |
| 22  | Interactive or Background                                       | N/A     | UL:32 DL:64                                               | PS |
| 23  | Interactive or Background                                       | N/A     | UL:64 DL:64                                               | PS |
| 24  | Interactive or Background                                       | N/A     | UL:64 DL:128                                              | PS |
| 25  | Interactive or Background                                       | N/A     | UL:128 DL:128                                             | PS |
| 26  | Interactive or Background                                       | N/A     | UL:64 DL:384                                              | PS |
| 27  | Interactive or Background                                       | N/A     | UL:128 DL:384                                             | PS |
| 28  | Interactive or Background                                       | N/A     | UL:384 DL:384                                             | PS |
| 29  | Interactive or Background                                       | N/A     | UL:64 DL:2048                                             | PS |
| 30  | Interactive or Background                                       | N/A     | UL:128 DL:2048                                            | PS |
| 31  | Void                                                            |         |                                                           |    |
| 32  | Interactive or Background                                       | N/A     | UL:64 DL:256                                              | PS |
| 33  | Interactive or Background                                       | N/A     | UL:0 DL:32                                                | PS |
| 34  | Interactive or Background                                       | N/A     | UL:32 DL:0                                                | PS |
| 35  | Interactive or Background                                       | N/A     | UL:64 DL:144                                              | PS |
| 36  | Interactive or Background                                       | N/A     | UL:144 DL:144                                             | PS |

SCCPCH or PDSCH

Maximum rate, kbps PhyCh onto which # Logical channel SRBs are mapped UL:1.7 DL:1.7 DPCH 1 DCCH 2 UL:3.4 DL:3.4 **DCCH DPCH** 3 UL:13.6 DL:13.6 **DCCH DPCH** 4 DL:27.2 (alt. 13.6) DCCH SCCPCH 5 UL:16.8 CCCH PRACH 6 DL:32 (alt. 16) CCCH **SCCPCH** SCCPCH 7 DL:33.6 (alt. 16.8) BCCH: SCCPCH 8 **PCCH** DL:12 (alt. 8) 9 UL:16.8 SHCCH **PRACH** 10 UL:16.8 SHCCH PRACH or PUSCH 11 DL:32 (alt. 16) SHCCH **SCCPCH** 

SHCCH

Table 6.10.3.1.2: Signalling RBs

## 6.10.3.2 Combinations of RABs and Signalling RBs

DL:16

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.

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- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10)Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.

- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19). Void.
- 20). Void.
- 21). Void.
- 22) Void..
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 24) Void..
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34)Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35)Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2048 kbps / PS RAB  $\pm$  UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / 12.2 kbps / CS RAB
  - + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background/ UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background/ UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background/ UL:64 DL:64 kbps / PS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Interactive or background / UL:0 DL:0 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38f) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38g) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38h) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38i) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38j) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:32 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL: 3.4 kbps SRBs for DCCH.

- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:128 DL:2048 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or Background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or Background / UL:16 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:128 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Reserved for future use
- 60) Reserved for future use
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB
  - + Interactive or Background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL: 3.4/16.8 DL:3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 4) Interactive or background / UL:384 DL:2048 kbps / PS RAB
  - + UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

#### Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

- 1) Stand-alone 12 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.

- 2a) Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB
  - + SRBs for CCCH
  - + SRB for DCCH
  - + SRB for BCCH

#### 2b)SRBs for CCCH

- + SRB for DCCH
- + SRB for BCCH
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.

#### 3a) SRB for PCCH

- + SRB for CCCH
- + SRB for DCCH
- + SRB for BCCH
- 4) RB for CTCH
  - + SRB for CCCH
  - + SRB for BCCH

#### Combinations on PRACH

- 1) Interactive or background / UL:12.8 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

## 6.10.3.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.3.3.1.

Table 6.10.3.3.1: Example of linkage between RABs and services

| RAB                          |                    |                              |       | Residual                                                           | Comicae                                                      |
|------------------------------|--------------------|------------------------------|-------|--------------------------------------------------------------------|--------------------------------------------------------------|
| Traffic class <sup>[3]</sup> | SSD <sup>[3]</sup> | Max. rate, kbps              | CS/PS | BER <sup>[3]</sup>                                                 | Services                                                     |
| Conversational               | Speech             | UL:4.75-12.2<br>DL:4.75-12.2 | CS    | 5x10 <sup>-4</sup> ,<br>1x10 <sup>-3</sup> ,<br>5x10 <sup>-3</sup> | AMR speech                                                   |
| Conversational               | Unknown            | UL:64 DL:64                  | cs    | 1x10 <sup>-4</sup> or<br>1x10 <sup>-6</sup>                        | UDI 1B, 64k 3G-324M <sup>[4]</sup>                           |
| Conversational               | Unknown            | UL:32 DL:32                  | cs    | 1x10 <sup>-4</sup> or<br>1x10 <sup>-6</sup>                        | 32k 3G-324M <sup>[4]</sup>                                   |
| Conversational               | Unknown            | UL:28.8 DL:28.8              | CS    | 1x10 <sup>-3</sup>                                                 | Transparent modem                                            |
| Streaming                    | Unknown            | UL:14.4 DL:14.4              | CS    | 1x10 <sup>-3</sup>                                                 | FAX <sup>[6]</sup>                                           |
| Streaming                    | Unknown            | UL:28.8 DL:28.8              | cs    | 1x10 <sup>-3</sup>                                                 | FAX <sup>[6]</sup><br>PIAFS 32 kbps                          |
| Streaming                    | Unknown            | UL:57.6 DL:57.6              | CS    | 1x10 <sup>-3</sup>                                                 | Modem <sup>[6]</sup> , FTM <sup>[5]</sup> ,<br>PIAFS 64 kbps |
|                              |                    |                              |       |                                                                    |                                                              |
| Streaming                    | Unknown            | UL:64-128 or<br>DL:64-384    | cs    | 1x10 <sup>-3</sup> or<br>1x10 <sup>-4</sup>                        | Streaming video, uni-directional                             |
| Interactive or<br>Background | N/A                | UL:32-384<br>DL:8-2048       | PS    | 1x10 <sup>-3</sup> or<br>1x10 <sup>-4</sup>                        | Packet                                                       |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH

NOTE 3: UDI nB can be provided via n RABs of conversational 64 kbps.

## 6.10.3.4 Typical radio parameter sets

## 6.10.3.4.1 Combinations on DPCH

6.10.3.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.1.1 Uplink

6.10.3.4.1.1.1 Transport channel parameters

## 6.10.3.4.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| Higher layer     | RAB/signalling RB User of Radio Bearer       |                                                     | SRB#1                   | SRB#2                          | SRB#3         | SRB#4        |  |  |
|------------------|----------------------------------------------|-----------------------------------------------------|-------------------------|--------------------------------|---------------|--------------|--|--|
|                  |                                              |                                                     | RRC                     | RRC                            | NAS_DT        | NAS_DT       |  |  |
|                  |                                              |                                                     |                         |                                | High priority | Low priority |  |  |
| RLC              | Logical channel type                         |                                                     | DCCH                    | DCCH                           | DCCH          | DCCH         |  |  |
|                  | RLC mode                                     |                                                     | UM                      | AM                             | AM            | AM           |  |  |
|                  | Payload sizes, bit                           |                                                     | 136                     | 128                            | 128           | 128          |  |  |
|                  | Max data rate, bps                           |                                                     | 1700                    | 1600                           | 1600          | 1600         |  |  |
|                  | AMD/UMD PDU header, bit                      |                                                     | 8                       | 16                             | 16            | 16           |  |  |
| MAC              | · · · · · · · · · · · · · · · · · · ·        |                                                     | 4                       | 4                              | 4             | 4            |  |  |
|                  | MAC multiplexing                             | · · · · · · · · · · · · · · · · · · ·               |                         | 4 logical channel multiplexing |               |              |  |  |
| Layer 1          | TrCH type                                    |                                                     | DCH                     |                                |               |              |  |  |
| •                | TB sizes, bit                                |                                                     | 148 (alt. 0,148) (note) |                                |               |              |  |  |
|                  | TFS TF0, bits                                |                                                     | 0x148 (alt 1:           |                                | 1x0) (note)   |              |  |  |
|                  | TF1, bits                                    |                                                     |                         | 1x1                            | 48            |              |  |  |
|                  | TTI, ms                                      | TTI, ms                                             |                         | 80                             |               |              |  |  |
|                  | Coding type                                  | Coding type                                         |                         | CC 1/3                         |               |              |  |  |
|                  | CRC, bit                                     |                                                     |                         | 16                             |               |              |  |  |
|                  | Max number of bits/TTI before matching       | Max number of bits/TTI before rate matching         |                         | 516                            |               |              |  |  |
|                  | Max number of bits/radio frame rate matching | Max number of bits/radio frame before rate matching |                         | 65                             |               |              |  |  |
|                  | RM attribute                                 |                                                     | 155-185                 |                                |               |              |  |  |
| NOTE: alternativ | e parameters enable the measurer             | nent "tran:                                         | sport channel           | BLER" in the U                 | JTRAN.        |              |  |  |

### 6.10.3.4.1.1.1.2 TFCS

| TFCS size           | 2                                                  |
|---------------------|----------------------------------------------------|
| TFCS                | SRBs for DCCH = (TF0), (TF1)                       |
| Note: The first TFC | is required for the alt. case, optional otherwise. |

## 6.10.3.4.1.1.1.2 Physical channel parameters

| DPCH Uplink                                                                           | Midamble                             | 512 chips                   |  |  |
|---------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|--|--|
|                                                                                       | Codes and time slots                 | SF16 x 1 code x 1 time slot |  |  |
|                                                                                       | Max. Number of data bits/radio frame | 234                         |  |  |
|                                                                                       | TFCI code word                       | 8 bits                      |  |  |
|                                                                                       | TPC                                  | 2 bits                      |  |  |
|                                                                                       | Puncturing Limit                     | 1                           |  |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be |                                      |                             |  |  |
| 4 bits                                                                                |                                      |                             |  |  |

## 6.10.3.4.1.1.2 Downlink

## 6.10.3.4.1.1.2.1 Transport channel parameters

## 6.10.3.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| Higher layer     | RAB/signalling RB          | RAB/signalling RB                     |                          | SRB#2                          | SRB#3         | SRB#4        |  |  |
|------------------|----------------------------|---------------------------------------|--------------------------|--------------------------------|---------------|--------------|--|--|
|                  | User of Radio Bearer       |                                       | RRC                      | RRC                            | NAS_DT        | NAS_DT       |  |  |
|                  |                            |                                       |                          |                                | High priority | Low priority |  |  |
| RLC              | Logical channel type       |                                       | DCCH                     | DCCH                           | DCCH          | DCCH         |  |  |
|                  | RLC mode                   |                                       | UM                       | AM                             | AM            | AM           |  |  |
|                  | Payload sizes, bit         |                                       | 136                      | 128                            | 128           | 128          |  |  |
|                  | Max data rate, bps         |                                       | 1700                     | 1600                           | 1600          | 1600         |  |  |
|                  | AMD/UMD PDU heade          | r, bit                                | 8                        | 16                             | 16            | 16           |  |  |
| MAC              | MAC header, bit            |                                       | 4                        | 4                              | 4             | 4            |  |  |
|                  | MAC multiplexing           | MAC multiplexing                      |                          | 4 logical channel multiplexing |               |              |  |  |
| Layer 1          | TrCH type                  |                                       | DCH                      |                                |               |              |  |  |
|                  | TB sizes, bit              | TB sizes, bit                         |                          | 148 (alt. 0,148) (note)        |               |              |  |  |
|                  | TFS T                      | F0, bits                              | 0 x148 (alt. 1x0) (note) |                                |               |              |  |  |
|                  | T                          | F1, bits                              |                          | 1x1                            | 48            |              |  |  |
|                  | TTI, ms                    | TTI, ms                               |                          | 80                             |               |              |  |  |
|                  | Coding type                | Coding type                           |                          | CC 1/3                         |               |              |  |  |
|                  | CRC, bit                   |                                       | 16                       |                                |               |              |  |  |
|                  | Max number of bits/TT      | number of bits/TTI before rate        |                          | 51                             | 6             |              |  |  |
|                  | matching                   | matching                              |                          |                                |               |              |  |  |
|                  | Max number of bits/rad     | Max number of bits/radio frame before |                          | 65                             |               |              |  |  |
|                  | rate matching              | rate matching                         |                          |                                |               |              |  |  |
|                  | RM attribute               |                                       |                          | 155-                           |               |              |  |  |
| NOTE: alternativ | e parameters enable the me | easurement "trans                     | sport channel I          | BLER" in the U                 | E.            |              |  |  |

## 6.10.3.4.1.1.2.1.2 TFCS

| TFCS size | 2                                                  |
|-----------|----------------------------------------------------|
| TFCS      | SRBs for DCCH = (TF0), (TF1)                       |
|           | is required for the alt. case, optional otherwise. |

## 6.10.3.4.1.1.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                   |  |  |
|-----------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|--|--|
|                                                                                         | Codes and time slots                 | SF16 x 1 code x 1 time slot |  |  |
|                                                                                         | Max. Number of data bits/radio frame | 236bits                     |  |  |
|                                                                                         | TFCI code word                       | 8bits                       |  |  |
|                                                                                         | Puncturing limit                     | 1                           |  |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 |                                      |                             |  |  |
| bits                                                                                    |                                      |                             |  |  |

6.10.3.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.10.3.4.1.1a.1 Uplink

6.10.3.4.1.1a.1.1 Transport channel parameters

## 6.10.3.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB                            | RAB/signalling RB   |        | SRB#2                          | SRB#3         | SRB#4        |  |
|--------------|----------------------------------------------|---------------------|--------|--------------------------------|---------------|--------------|--|
|              | User of Radio Bearer                         |                     | RRC    | RRC                            | NAS_DT        | NAS_DT       |  |
|              |                                              |                     |        |                                | High priority | Low priority |  |
| RLC          | Logical channel typ                          | е                   | DCCH   | DCCH                           | DCCH          | DCCH         |  |
|              | RLC mode                                     |                     | UM     | AM                             | AM            | AM           |  |
|              | Payload sizes, bit                           |                     | 136    | 128                            | 128           | 128          |  |
|              | Max data rate, bps                           |                     | 1700   | 1600                           | 1600          | 1600         |  |
|              | AMD/UMD PDU he                               | ader, bit           | 8      | 16                             | 16            | 16           |  |
| MAC          | C MAC header, bit                            |                     | 4      | 4                              | 4             | 4            |  |
|              | MAC multiplexing                             | MAC multiplexing    |        | 4 logical channel multiplexing |               |              |  |
| Layer 1      | TrCH type                                    | TrCH type           |        | DCH                            |               |              |  |
|              | TB sizes, bit                                |                     | 148    |                                |               |              |  |
|              | TFS                                          | TF0, bits           | 0x148  |                                |               |              |  |
|              |                                              | TF1, bits           | 1x148  |                                |               |              |  |
|              | TTI, ms                                      |                     | 20     |                                |               |              |  |
|              | Coding type                                  |                     | CC 1/3 |                                |               |              |  |
|              | CRC, bit  Max number of bits/TTI before rate |                     | 16     |                                |               |              |  |
|              |                                              |                     | 516    |                                |               |              |  |
|              | matching                                     |                     |        |                                |               |              |  |
|              | Max number of bits                           | /radio frame before |        | 25                             | 58            |              |  |
|              | rate matching                                |                     |        |                                |               |              |  |

#### 6.10.3.4.1.1a.1.1.2 TFCS

| TFCS size | 2                            |
|-----------|------------------------------|
| TFCS      | SRBs for DCCH = (TF0), (TF1) |

## 6.10.3.4.1.1a.1.2 Physical channel parameters

| DPCH Uplink                                                                           | Midamble                             | 256 chips                   |
|---------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
|                                                                                       | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                       | Max. Number of data bits/radio frame | 266                         |
|                                                                                       | TFCI code word                       | 8 bits                      |
|                                                                                       | TPC                                  | 2 bits                      |
|                                                                                       | Puncturing Limit                     | 1                           |
|                                                                                       | Repetition period                    | 8                           |
|                                                                                       | Repetition length                    | 2                           |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be |                                      |                             |
| 4 hits                                                                                |                                      |                             |

6.10.3.4.1.1a.2 Downlink

6.10.3.4.1.1a.2.1 Transport channel parameters

## 6.10.3.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB                           | RAB/signalling RB                                   |        | SRB#2                          | SRB#3         | SRB#4        |  |
|--------------|---------------------------------------------|-----------------------------------------------------|--------|--------------------------------|---------------|--------------|--|
|              | User of Radio Bearer                        |                                                     | RRC    | RRC                            | NAS_DT        | NAS_DT       |  |
|              |                                             |                                                     |        |                                | High priority | Low priority |  |
| RLC          | Logical channel typ                         | е                                                   | DCCH   | DCCH                           | DCCH          | DCCH         |  |
|              | RLC mode                                    |                                                     | UM     | AM                             | AM            | AM           |  |
|              | Payload sizes, bit                          |                                                     | 136    | 128                            | 128           | 128          |  |
|              | Max data rate, bps                          |                                                     | 1700   | 1600                           | 1600          | 1600         |  |
|              | AMD/UMD PDU he                              | eader, bit                                          | 8      | 16                             | 16            | 16           |  |
| MAC          | MAC header, bit                             |                                                     | 4      | 4                              | 4             | 4            |  |
|              | MAC multiplexing                            | MAC multiplexing                                    |        | 4 logical channel multiplexing |               |              |  |
| Layer 1      | TrCH type                                   | TrCH type                                           |        | DCH                            |               |              |  |
|              | TB sizes, bit                               | TB sizes, bit                                       |        | 148                            |               |              |  |
|              | TFS                                         | TF0, bits                                           | 0 x148 |                                |               |              |  |
|              |                                             | TF1, bits                                           | 1x148  |                                |               |              |  |
|              | TTI, ms                                     |                                                     | 20     |                                |               |              |  |
|              | Coding type                                 |                                                     | CC 1/3 |                                |               |              |  |
|              | CRC, bit                                    |                                                     | 16     |                                |               |              |  |
|              | Max number of bits/TTI before rate matching |                                                     |        | 5′                             | 16            |              |  |
|              | Max number of bits rate matching            | Max number of bits/radio frame before rate matching |        | 25                             | 58            |              |  |

### 6.10.3.4.1.1a.2.1.2 TFCS

| TFCS size           | 2                               |  |  |
|---------------------|---------------------------------|--|--|
| TFCS                | SRBs for DCCH = (TF0), (TF1)    |  |  |
| Note: The first TFC | Note: The first TFC is optional |  |  |

## 6.10.3.4.1.1a.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 256 chips                   |  |  |
|-----------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|--|--|
|                                                                                         | Codes and time slots                 | SF16 x 1 code x 1 time slot |  |  |
|                                                                                         | Max. Number of data bits/radio frame | 268 bits                    |  |  |
|                                                                                         | TFCI code word                       | 8 bits                      |  |  |
|                                                                                         | Puncturing limit                     | 1                           |  |  |
|                                                                                         | Repetition period                    | 8                           |  |  |
|                                                                                         | Repetition length                    | 2                           |  |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 |                                      |                             |  |  |
| hits                                                                                    |                                      |                             |  |  |

6.10.3.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.2.1 Uplink

6.10.3.4.1.2.1.1 Transport channel parameters

## 6.10.3.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

| Higher layer     | RAB/signalling RB                                                                                            |                      | SRB#1                          | SRB#2          | SRB#3         | SRB#4        |
|------------------|--------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------|----------------|---------------|--------------|
|                  | User of Radio Bearer                                                                                         |                      | RRC                            | RRC            | NAS_DT        | NAS_DT       |
|                  |                                                                                                              |                      |                                |                | High priority | Low priority |
| RLC              | Logical channel type                                                                                         | Logical channel type |                                | DCCH           | DCCH          | DCCH         |
|                  | RLC mode                                                                                                     |                      | UM                             | AM             | AM            | AM           |
|                  | Payload sizes, bit                                                                                           |                      | 136                            | 128            | 128           | 128          |
|                  | Max data rate, bps                                                                                           |                      | 3400                           | 3200           | 3200          | 3200         |
|                  | AMD/UMD PDU hea                                                                                              | der, bit             | 8                              | 16             | 16            | 16           |
| MAC              | MAC header, bit                                                                                              |                      | 4                              | 4              | 4             | 4            |
|                  | MAC multiplexing                                                                                             |                      | 4 logical channel multiplexing |                |               |              |
| Layer 1          | TrCH type                                                                                                    |                      | DCH                            |                |               |              |
| •                | TB sizes, bit                                                                                                |                      | 148 (alt. 0,148) (note)        |                |               |              |
|                  | TFS                                                                                                          | TF0, bits            | 0x148 (alt. 1x0) (note)        |                |               |              |
|                  |                                                                                                              | TF1, bits            | 1x148                          |                |               |              |
|                  | TTI, ms                                                                                                      |                      | 40                             |                |               |              |
|                  | Coding type                                                                                                  |                      | CC 1/3                         |                |               |              |
|                  | CRC, bit                                                                                                     |                      | 16                             |                |               |              |
|                  | Max number of bits/TTI before rate matching Max number of bits/radio frame before rate matching RM attribute |                      |                                | 51             | 6             |              |
|                  |                                                                                                              |                      |                                | 12             | 29            |              |
|                  |                                                                                                              |                      |                                | 155-           | 165           |              |
| NOTE: alternativ | e parameters enable the                                                                                      | measurement "tran    | sport channel                  | BLER" in the U | JTRAN.        | -            |

### 6.10.3.4.1.2.1.1.2 TFCS

| TFCS size           | 2                                                                      |  |
|---------------------|------------------------------------------------------------------------|--|
| TFCS                | SRBs for DCCH = (TF0), (TF1)                                           |  |
| Note: The first TFC | Note: The first TFC is required for the alt. case, optional otherwise. |  |

## 6.10.3.4.1.2.1.2 Physical channel parameters

| DPCH Uplink       | Midamble                                                                              | 512 chips                   |  |
|-------------------|---------------------------------------------------------------------------------------|-----------------------------|--|
|                   | Codes and time slots                                                                  | SF16 x 1 code x 1 time slot |  |
|                   | Max. Number of data bits/radio frame                                                  | 234 bits                    |  |
|                   | TFCI code word                                                                        | 8bits                       |  |
|                   | TPC                                                                                   | 2 bit                       |  |
|                   | Puncturing Limit                                                                      | 1                           |  |
| Note: In case the | Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be |                             |  |
| 4 bits            |                                                                                       |                             |  |

## 6.10.3.4.1.2.2 Downlink

## 6.10.3.4.1.2.2.1 Transport channel parameters

## 6.10.3.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

| Higher layer     | RAB/signalling RB       | RAB/signalling RB                                   |                          | SRB#2                          | SRB#3         | SRB#4        |  |
|------------------|-------------------------|-----------------------------------------------------|--------------------------|--------------------------------|---------------|--------------|--|
|                  | User of Radio Beare     | User of Radio Bearer                                |                          | RRC                            | NAS_DT        | NAS_DT       |  |
|                  |                         |                                                     |                          |                                | High priority | Low priority |  |
| RLC              | Logical channel type    | Logical channel type                                |                          | DCCH                           | DCCH          | DCCH         |  |
|                  | RLC mode                |                                                     | UM                       | AM                             | AM            | AM           |  |
|                  | Payload sizes, bit      |                                                     | 136                      | 128                            | 128           | 128          |  |
|                  | Max data rate, bps      |                                                     | 3400                     | 3200                           | 3200          | 3200         |  |
|                  | AMD/UMD PDU hea         | der, bit                                            | 8                        | 16                             | 16            | 16           |  |
| MAC              | MAC header, bit         |                                                     | 4                        | 4                              | 4             | 4            |  |
|                  | MAC multiplexing        | ,                                                   |                          | 4 logical channel multiplexing |               |              |  |
| Layer 1          | TrCH type               |                                                     | DCH                      |                                |               |              |  |
|                  | TB sizes, bit           |                                                     | 148 (alt. 0, 148) (note) |                                |               |              |  |
|                  | TFS                     | TF0, bits                                           | 0x148 (alt. 1x0) (note)  |                                |               |              |  |
|                  |                         | TF1, bits                                           | 1x148                    |                                |               |              |  |
|                  | TTI, ms                 |                                                     | 40                       |                                |               |              |  |
|                  | Coding type             |                                                     | CC 1/3                   |                                |               |              |  |
|                  | CRC, bit                |                                                     | 16                       |                                |               |              |  |
|                  | Max number of bits/     | TTI before rate                                     |                          | 51                             | 6             |              |  |
|                  | matching                |                                                     |                          |                                |               |              |  |
|                  | Max number of bits/     | Max number of bits/radio frame before rate matching |                          | 12                             | .9            |              |  |
|                  |                         |                                                     |                          |                                |               |              |  |
|                  | RM attribute            |                                                     |                          | 155-                           | 165           |              |  |
| NOTE: alternativ | e parameters enable the | measurement "tran                                   | sport channel            | BLER" in the L                 | JE.           |              |  |

### 6.10.3.4.1.2.2.1.2 TFCS

| TFCS size           | 2                                                                      |  |  |
|---------------------|------------------------------------------------------------------------|--|--|
| TFCS                | SRBs for DCCH = (TF0), (TF1)                                           |  |  |
| Note: The first TFC | Note: The first TFC is required for the alt. case, optional otherwise. |  |  |

## 6.10.3.4.1.2.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                   |  |  |
|-----------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|--|--|
|                                                                                         | Codes and time slots                 | SF16 x 1 code x 1 time slot |  |  |
|                                                                                         | Max. Number of data bits/radio frame | 236                         |  |  |
|                                                                                         | TFCI code word                       | 8bits                       |  |  |
|                                                                                         | Puncturing limit                     | 1                           |  |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 |                                      |                             |  |  |
| bits                                                                                    |                                      |                             |  |  |

6.10.3.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.10.3.4.1.3.1 Uplink

6.10.3.4.1.3.1.1 Transport channel parameters

## 6.10.3.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| Higher layer     | RAB/signalling RB      |                                       | SRB#1                   | SRB#2           | SRB#3           | SRB#4        |
|------------------|------------------------|---------------------------------------|-------------------------|-----------------|-----------------|--------------|
|                  | User of Radio Bear     | er                                    | RRC                     | RRC             | NAS_DT          | NAS_DT       |
|                  |                        |                                       |                         |                 | High priority   | Low priority |
| RLC              | Logical channel typ    | Logical channel type                  |                         | DCCH            | DCCH            | DCCH         |
|                  | RLC mode               |                                       | UM                      | AM              | AM              | AM           |
|                  | Payload sizes, bit     |                                       | 136                     | 128             | 128             | 128          |
|                  | Max data rate, bps     |                                       | 13600                   | 12800           | 12800           | 12800        |
|                  | AMD/UMD PDU he         | eader, bit                            | 8                       | 16              | 16              | 16           |
| MAC              | MAC header, bit        |                                       | 4                       | 4               | 4               | 4            |
|                  | MAC multiplexing       |                                       | 4                       | 4 logical chann | el multiplexing |              |
| Layer 1          | Layer 1 TrCH type      |                                       | DCH                     |                 |                 |              |
|                  | TB sizes, bit          |                                       | 148 (alt. 0,148) (note) |                 |                 |              |
|                  | TFS                    | TF0, bits                             | 0x148 (alt. 1x0) (note) |                 |                 |              |
|                  |                        | TF1, bits                             | 1x148                   |                 |                 |              |
|                  | TTI, ms                |                                       | 10                      |                 |                 |              |
|                  | Coding type            |                                       | CC 1/3                  |                 |                 |              |
|                  | CRC, bit               |                                       | 16                      |                 |                 |              |
|                  | Max number of bits     | /TTI before rate                      |                         | 51              | 6               |              |
|                  | matching               |                                       |                         |                 |                 |              |
|                  | Max number of bits     | Max number of bits/radio frame before |                         | 51              | 6               |              |
|                  | rate matching          |                                       |                         |                 |                 |              |
| NOTE: alternativ | e parameters enable th | e measurement "tran                   | sport channel           | BLER" in the U  | JTRAN.          |              |

### 6.10.3.4.1.3.1.1.2 TFCS

| TFCS size           | 2                                                  |
|---------------------|----------------------------------------------------|
| TFCS                | SRBs for DCCH = (TF0), (TF1)                       |
| Note: The first TFC | is required for the alt. case, optional otherwise. |

## 6.10.3.4.1.3.1.2 Physical channel parameters

| DPCH Uplink                                                              | Midamble                             | 512 chips                    |
|--------------------------------------------------------------------------|--------------------------------------|------------------------------|
|                                                                          | Codes and time slots                 | SF8 x 1 code x 1 time slot   |
|                                                                          | Max. Number of data bits/radio frame | 468 bits                     |
|                                                                          | TFCI code word                       | 8bits                        |
|                                                                          | TPC                                  | 2 bits                       |
|                                                                          | Puncturing Limit                     | 0.88                         |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code |                                      | , the TFCI code word will be |
| 4 bits                                                                   |                                      |                              |

## 6.10.3.4.1.3.2 Downlink

## 6.10.3.4.1.3.2.1 Transport channel parameters

## 6.10.3.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

| Higher layer                                        | RAB/signalling RB           |                                    | SRB#1                          | SRB#2          | SRB#3         | SRB#4        |  |
|-----------------------------------------------------|-----------------------------|------------------------------------|--------------------------------|----------------|---------------|--------------|--|
|                                                     | User of Radio Bear          | er                                 | RRC                            | RRC            | NAS_DT        | NAS_DT       |  |
|                                                     |                             |                                    |                                |                | High priority | Low priority |  |
| RLC                                                 | Logical channel type        |                                    | DCCH                           | DCCH           | DCCH          | DCCH         |  |
|                                                     | RLC mode                    |                                    | UM                             | AM             | AM            | AM           |  |
|                                                     | Payload sizes, bit          |                                    | 136                            | 128            | 128           | 128          |  |
|                                                     | Max data rate, bps          |                                    | 13600                          | 12800          | 12800         | 12800        |  |
|                                                     | AMD/UMD PDU he              | eader, bit                         | 8                              | 16             | 16            | 16           |  |
| MAC                                                 | MAC header, bit             |                                    | 4                              | 4              | 4             | 4            |  |
|                                                     | MAC multiplexing            |                                    | 4 logical channel multiplexing |                |               |              |  |
| Layer 1                                             | TrCH type                   | TrCH type                          |                                | DCH            |               |              |  |
|                                                     | TB sizes, bit               |                                    | 148 (alt. 0,148) (note)        |                |               |              |  |
|                                                     | TFS                         | TF0, bits                          | 0x148 (alt. 1x0) (note)        |                |               |              |  |
|                                                     |                             | TF1, bits                          | 1x148                          |                |               |              |  |
|                                                     | TTI, ms                     |                                    | 10                             |                |               |              |  |
|                                                     | Coding type                 |                                    | CC 1/3                         |                |               |              |  |
|                                                     | CRC, bit                    |                                    | 16                             |                |               |              |  |
|                                                     | Max number of bits matching | Max number of bits/TTI before rate |                                | 516            |               |              |  |
| Max number of bits/radio frame before rate matching |                             | 516                                |                                |                |               |              |  |
| NOTE: alternative                                   | e parameters enable the     | e measurement "trans               | sport channel                  | BLER" in the U | IE            |              |  |

## 6.10.3.4.1.3.2.1.2 TFCS

| TFCS size           | 2                                                  |
|---------------------|----------------------------------------------------|
| TFCS                | SRBs for DCCH = (TF0), (TF1)                       |
| Note: The first TFC | is required for the alt. case, optional otherwise. |

## 6.10.3.4.1.3.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                    |
|-----------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
|                                                                                         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                         | Max. Number of data bits/radio frame | 480bits                      |
|                                                                                         | TFCI code word                       | 8 bits                       |
|                                                                                         | Puncturing limit                     | 0.92                         |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 |                                      |                              |
| bits                                                                                    | _                                    |                              |

6.10.3.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.4.1 Uplink

6.10.3.4.1.4.1.1 Transport channel parameters

### 6.10.3.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |  |
|-----------------|-----------------------------------------------------|----------------------------|----------------|----------------|--|
| RLC             | Logical channel type                                |                            | DTCH           |                |  |
|                 | RLC mode                                            | TM                         | TM             | TM             |  |
|                 | Payload sizes, bit                                  | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |  |
|                 | Max data rate, bps                                  |                            | 12200          |                |  |
|                 | TrD PDU header, bit                                 |                            | 0              |                |  |
| MAC             | MAC header, bit                                     |                            | 0              |                |  |
|                 | MAC multiplexing                                    |                            | N/A            |                |  |
| Layer 1         | TrCH type                                           | DCH                        | DCH            | DCH            |  |
|                 | TB sizes, bit                                       | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |  |
|                 | TFS TF0, bits                                       | 0x81(alt. 1x0) (note)      | 0x103          | 0x60           |  |
|                 | TF1, bits                                           | 1x39                       | 1x103          | 1x60           |  |
|                 | TF2, bits                                           | 1x81                       | N/A            | N/A            |  |
|                 | TTI, ms                                             | 20                         | 20             | 20             |  |
|                 | Coding type                                         | CC 1/3                     | CC 1/3         | CC 1/2         |  |
|                 | CRC, bit                                            | 12                         | N/A            | N/A            |  |
|                 | Max number of bits/TTI after channel coding         | 303                        | 333            | 136            |  |
|                 | Max number of bits/radio frame before rate matching | 152                        | 167            | 68             |  |
|                 | RM attribute                                        | 180-220                    | 170-210        | 215-256        |  |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

## 6.10.3.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

#### 6.10.3.4.1.4.1.1.3 TFCS

| TFCS size       | 6                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                                                       |
|                 | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),                                         |
|                 | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)                                          |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.4.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.72                       |

6.10.3.4.1.4.2 Downlink

6.10.3.4.1.4.2.1 Transport channel parameters

## 6.10.3.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher<br>Layer | RAB/Signa                                   | alling RB                          | RAB subflow #1            | RAB subflow #2 | RAB subflow #3 |
|-----------------|---------------------------------------------|------------------------------------|---------------------------|----------------|----------------|
| RLC             | Logical cha                                 | annel type                         |                           | DTCH           |                |
|                 | RLC mode                                    |                                    | TM                        | TM             | TM             |
|                 | Payload si                                  | zes, bit                           | 39,81 (alt. 0, 39, 81)    | 103            | 60             |
|                 | Max data r                                  | ate, bps                           |                           | 12200          |                |
|                 | TrD PDU h                                   | neader, bit                        |                           | 0              |                |
| MAC             | MAC head                                    | er, bit                            |                           | 0              |                |
|                 | MAC multi                                   | plexing                            |                           | N/A            |                |
| Layer 1         | TrCH type                                   |                                    | DCH                       | DCH            | DCH            |
| ,               | TB sizes, bit                               |                                    | 39,81 (alt. 0,39,81)      | 103            | 60             |
|                 | TFS<br>(note 1)                             | TF0, bits                          | 0x81 (alt. 1x0)<br>(note) | 0x103          | 0x60           |
|                 |                                             | TF1, bits                          | 1x39                      | 1x103          | 1x60           |
|                 |                                             | TF2, bits                          | 1x81                      | N/A            | N/A            |
|                 | TTI, ms                                     |                                    | 20                        | 20             | 20             |
|                 | Coding typ                                  | е                                  | CC 1/3                    | CC 1/3         | CC 1/2         |
|                 | CRC, bit                                    |                                    | 12                        | N/A            | N/A            |
|                 | Max number of bits/TTI after channel coding |                                    | 303                       | 333            | 136            |
|                 | Max numb before rate                        | er of bits/radio frame<br>matching | 152                       | 167            | 68             |
|                 | RM attribu                                  | te                                 | 180-220                   | 170-210        | 215-256        |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

## 6.10.3.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.4.2.1.3 TFCS

| TFCS size             | 6                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                                                   |
|                       | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),                                     |
|                       | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)                                      |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.4.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

6.10.3.4.1.4a Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.4a.1 Uplink

6.10.3.4.1.4a.1.1 Transport channel parameters

Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) 6.10.3.4.1.4a.1.1.1 kbps / CS RAB

| Higher<br>layer | RAB/Signalling                                                                                   | RB       | RAB subflow #1                                        | RAB subflow #2  | RAB subflow #3 |
|-----------------|--------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------|-----------------|----------------|
| RLC             | Logical channe                                                                                   | l type   |                                                       | DTCH            |                |
| -               | RLC mode                                                                                         | 71 -     | TM                                                    | TM              | TM             |
|                 | Payload sizes,                                                                                   | bit      | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55,<br>75, 81) | 53, 63, 84, 103 | 60             |
|                 | Max data rate,                                                                                   | bps      |                                                       | 12200           |                |
|                 | TrD PDU head                                                                                     | er, bit  |                                                       | 0               |                |
| MAC             | MAC header, b                                                                                    | it       |                                                       | 0               |                |
|                 | MAC multiplexi                                                                                   | ng       |                                                       | N/A             |                |
| Layer 1         | TrCH type                                                                                        |          | DCH                                                   | DCH             | DCH            |
|                 | TB sizes, bit                                                                                    |          | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55,<br>75, 81) | 53, 63, 84, 103 | 60             |
|                 | TFS TF                                                                                           | 0, bits  | 0x81(alt. 1x0)<br>(note)                              | 0x103           | 0x60           |
|                 | TF                                                                                               | 1, bits  | 1x39                                                  | 1x53            | 1x60           |
|                 | TF                                                                                               | 2 bits   | 1x42                                                  | 1x63            | N/A            |
|                 | TF                                                                                               | 3, bits  | 1x55                                                  | 1x84            | N/A            |
|                 | TF                                                                                               | 4, bits  | 1x75                                                  | 1x103           | N/A            |
|                 | TF                                                                                               | 5, bits  | 1x81                                                  | N/A             | N/A            |
|                 | TTI, ms                                                                                          |          | 20                                                    | 20              | 20             |
|                 | Coding type                                                                                      |          | CC 1/3                                                | CC 1/3          | CC 1/2         |
|                 | CRC, bit                                                                                         |          | 12                                                    | N/A             | N/A            |
|                 | Max number of bits/TTI after channel coding  Max number of bits/radio frame before rate matching |          | 303                                                   | 333             | 136            |
|                 |                                                                                                  |          | 152                                                   | 167             | 68             |
|                 | RM attribute                                                                                     | <u> </u> | 180-220                                               | 170-210         | 215-256        |

number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

#### 6.10.3.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.4a.1.1.3 **TFCS**

| TFCS size       | 12                                                                                                      |
|-----------------|---------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=                                                    |
|                 | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),                             |
|                 | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF0,TF1),                                 |
|                 | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)                              |
| Note: In case T | B size zero is configured for any transport channel the first TEC is required; it is optional otherwise |

#### 6.10.3.4.1.4a.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.72                       |

6.10.3.4.1.4a.2 Downlink

6.10.3.4.1.4a.2.1 Transport channel parameters

#### 6.10.3.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Signalling RB                                   | RAB subflow #1                                        | RAB subflow #2  | RAB subflow #3 |
|-----------------|-----------------------------------------------------|-------------------------------------------------------|-----------------|----------------|
| RLC             | Logical channel type                                |                                                       | DTCH            | ı              |
|                 | RLC mode                                            | TM                                                    | TM              | TM             |
|                 | Payload sizes, bit                                  | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55,<br>75, 81) | 53, 63, 84, 103 | 60             |
|                 | Max data rate, bps                                  |                                                       | 12 200          |                |
|                 | TrD PDU header, bit                                 |                                                       | 0               |                |
| MAC             | MAC header, bit                                     |                                                       | 0               |                |
|                 | MAC multiplexing                                    |                                                       | N/A             |                |
| Layer 1         | TrCH type                                           | DCH                                                   | DCH             | DCH            |
|                 | TB sizes, bit                                       | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55,<br>75, 81) | 53, 63, 84, 103 | 60             |
|                 | TFS TF0, bits                                       | 0x81(alt. 1x0)<br>(note)                              | 0x103           | 0x60           |
|                 | TF1, bits                                           | 1x39                                                  | 1x53            | 1x60           |
|                 | TF2, bits                                           | 1x42                                                  | 1x63            | N/A            |
|                 | TF3, bits                                           | 1x55                                                  | 1x84            | N/A            |
|                 | TF4, bits                                           | 1x75                                                  | 1x103           | N/A            |
|                 | TF5, bits                                           | 1x81                                                  | N/A             | N/A            |
|                 | TTI, ms                                             | 20                                                    | 20              | 20             |
|                 | Coding type                                         | CC 1/3                                                | CC 1/3          | CC 1/2         |
|                 | CRC, bit                                            | 12                                                    | N/A             | N/A            |
|                 | Max number of bits/TTI after channel coding         | 303                                                   | 333             | 136            |
|                 | Max number of bits/radio frame before rate matching | 152                                                   | 167             | 68             |
|                 | RM attribute                                        | 180-220                                               | 170-210         | 215-256        |

Transport channel parameters for DL:3.4 kbps SRBs for DCCH 6.10.3.4.1.4a.2.1.2

See clause 6.10.3.4.1.2.2.1.1

### 6.10.3.4.1.4a.2.1.3 TFCS

| TFCS size        | 12                                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=                                                   |
|                  | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),                            |
|                  | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),                            |
|                  | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)                             |
| Note: In case TB | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.4a.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

6.10.3.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.5.1 Uplink

6.10.3.4.1.5.1.1 Transport channel parameters

## 6.10.3.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher<br>Layer | RAB/Signa                                           | alling RB   | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|-----------------|-----------------------------------------------------|-------------|----------------------------|----------------|----------------|
| RLC             | Logical ch                                          | annel type  |                            | DTCH           | •              |
|                 | RLC mode                                            |             | TM                         | TM             | TM             |
|                 | Payload si                                          | zes, bit    | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |
|                 | Max data                                            | rate, bps   | , , ,                      | 10200          |                |
|                 | TrD PDU I                                           | neader, bit |                            | 0              |                |
| ИАС             | MAC head                                            | ler, bit    |                            | 0              |                |
|                 | MAC multiplexing                                    |             |                            | N/A            |                |
| _ayer 1         | TrCH type                                           |             | DCH                        | DCH            | DCH            |
|                 | TB sizes, bit                                       |             | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |
|                 | TFS                                                 | TF0, bits   | 0x65 (alt. 1x0)<br>(note)  | 0x99           | 0x40           |
|                 |                                                     | TF1, bits   | 1x39                       | 1x99           | 1x40           |
|                 |                                                     | TF2, bits   | 1x65                       | N/A            | N/A            |
|                 | TTI, ms                                             |             | 20                         | 20             | 20             |
|                 | Coding type                                         |             | CC 1/3                     | CC 1/3         | CC 1/2         |
|                 | CRC, bit                                            |             | 12                         | N/A            | N/A            |
|                 | Max number of bits/TTI after channel coding         |             | 255                        | 321            | 96             |
|                 | Max number of bits/radio frame before rate matching |             | 128                        | 161            | 48             |
|                 | RM attribute                                        |             | 180-220                    | 170-210        | 215-256        |

number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 25.222).

6.10.3.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.5.1.1.3 TFCS

| TFCS size            | 6                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------|
| TFCS                 | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                                                  |
|                      | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),                                    |
|                      | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)                                     |
| Note: In case TB siz | e zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.5.1.2 Physical channel parameters

| DPCH Uplink | Midamble                                      | 512 chips                   |
|-------------|-----------------------------------------------|-----------------------------|
|             | Codes and time slots                          | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame 226 bits |                             |
|             | TFCI code word 16 bits                        |                             |
|             | TPC 2 bit                                     |                             |
|             | Puncturing Limit                              | 0.40                        |

6.10.3.4.1.5.2 Downlink

6.10.3.4.1.5.2.1 Transport channel parameters

## 6.10.3.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB subflow #1         | RAB subflow #2 | RAB subflow #3 |
|-----------------|-----------------------------------------------------|------------------------|----------------|----------------|
| RLC             | Logical channel type                                |                        | DTCH           |                |
|                 | RLC mode                                            | TM                     | TM             | TM             |
|                 | Payload sizes, bit                                  | 39,65 (alt. 0, 39, 65) | 99             | 40             |
|                 | Max data rate, bps                                  |                        | 10200          |                |
|                 | TrD PDU header, bit                                 |                        | 0              |                |
| MAC             | MAC header, bit                                     |                        | 0              |                |
|                 | MAC multiplexing                                    |                        | N/A            |                |
| _ayer 1         | TrCH type                                           | DCH                    | DCH            | DCH            |
|                 | TB sizes, bit                                       | 39, 65 (alt.0,39,65)   | 99             | 40             |
|                 | TFS TF0, bits                                       | 0x65 (alt,1x0) (note)  | 0x99           | 0x40           |
|                 | (note 1) TF1, bits                                  | 1x39                   | 1x99           | 1x40           |
|                 | TF2, bits                                           | 1x65                   | N/A            | N/A            |
|                 | TTI, ms                                             | 20                     | 20             | 20             |
|                 | Coding type                                         | CC 1/3                 | CC 1/3         | CC 1/2         |
|                 | CRC, bit                                            | 12                     | N/A            | N/A            |
|                 | Max number of bits/TTI after channel coding         | 255                    | 321            | 96             |
|                 | Max number of bits/radio frame before rate matching | 128                    | 161            | 48             |
|                 | RM attribute                                        | 180-220                | 170-210        | 215-256        |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even in there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.5.2.1.3 TFCS

| TFCS size            | 6                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------|
| TFCS                 | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                                                  |
|                      | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),                                    |
|                      | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)                                     |
| Note: In case TB siz | e zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.5.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.40                        |

6.10.3.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.5a.1 Uplink

6.10.3.4.1.5a.1.1 Transport channel parameters

## 6.10.3.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>Layer | RAB/Signa                                           | alling RB                     | RAB subflow #1                  | RAB subflow #2 | RAB subflow #3 |
|-----------------|-----------------------------------------------------|-------------------------------|---------------------------------|----------------|----------------|
| RLC             | Logical cha                                         | annel type                    |                                 | DTCH           |                |
|                 | RLC mode                                            |                               | TM                              | TM             | TM             |
|                 | Payload si                                          |                               | 39, 42, 55, 58, 65              | 53, 63, 76, 99 | 40             |
|                 |                                                     |                               | (alt. 0, 39, 42, 55,<br>58, 65) | ,,             |                |
|                 | Max data r                                          | ate, bps                      |                                 | 10200          |                |
|                 | TrD PDU h                                           | neader, bit                   |                                 | 0              |                |
| MAC             | MAC head                                            | er, bit                       |                                 | 0              |                |
|                 | MAC multi                                           |                               |                                 | N/A            |                |
| Layer 1         | TrCH type                                           |                               | DCH                             | DCH            | DCH            |
| •               | TB sizes, b                                         | oit                           | 39, 42, 55, 58, 65              | 53, 63, 76, 99 | 40             |
|                 |                                                     |                               | (alt. 0, 39, 42, 55,<br>58, 65) |                |                |
|                 | TFS                                                 | TF0, bits                     | 0x65 (alt. 1x0)<br>(note)       | 0x99           | 0x40           |
|                 |                                                     | TF1, bits                     | 1x39                            | 1x53           | 1x40           |
|                 |                                                     | TF2, bits                     | 1x42                            | 1x63           | N/A            |
|                 |                                                     | TF3, bits                     | 1x55                            | 1x76           | N/A            |
|                 |                                                     | TF4, bits                     | 1x58                            | 1x99           | N/A            |
|                 |                                                     | TF5, bits                     | 1x65                            | N/A            | N/A            |
|                 | TTI, ms                                             |                               | 20                              | 20             | 20             |
|                 | Coding type                                         |                               | CC 1/3                          | CC 1/3         | CC 1/2         |
|                 | CRC, bit                                            |                               | 12                              | N/A            | N/A            |
|                 | Max numb channel co                                 | er of bits/TTI after<br>oding | 255                             | 321            | 96             |
|                 | Max number of bits/radio frame before rate matching |                               | 128                             | 161            | 48             |
|                 | RM attribute                                        |                               | 180-220                         | 170-210        | 215-256        |

6.10.3.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

#### 6.10.3.4.1.5a.1.1.3 TFCS

| TFCS size          | 12                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                                                   |
|                    | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),                           |
|                    | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),                           |
|                    | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)                            |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.5a.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.40                        |

6.10.3.4.1.5a.2 Downlink

6.10.3.4.1.5a.2.1 Transport channel parameters

# 6.10.3.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>Layer | RAB/Signa            | alling RB   | RAB subflow #1                                        | RAB subflow #2    | RAB subflow #3 |
|-----------------|----------------------|-------------|-------------------------------------------------------|-------------------|----------------|
| RLC             | Logical channel type |             |                                                       | DTCH              |                |
|                 | RLC mode             |             | TM                                                    | TM                | TM             |
|                 | Payload si           | zes, bit    | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55,<br>58, 65) | 0, 53, 63, 76, 99 | 40             |
|                 | Max data r           | ate, bps    |                                                       | 10 200            |                |
|                 | TrD PDU ł            | neader, bit |                                                       | 0                 |                |
| MAC             | MAC head             | ler, bit    |                                                       | 0                 |                |
|                 | MAC multi            | plexing     |                                                       | N/A               |                |
| Layer 1         | TrCH type            |             | DCH                                                   | DCH               | DCH            |
|                 | TB sizes, t          | oit         | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55,<br>58, 65) | 0, 53, 63, 76, 99 | 40             |
|                 | TFS                  | TF0, bits   | 0x65 (alt. 1x0)<br>(note)                             | 0x99              | 0x40           |
|                 |                      | TF1, bits   | 1x39                                                  | 1x53              | 1x40           |
|                 |                      | TF2, bits   | 1x42                                                  | 1x63              | N/A            |
|                 |                      | TF3, bits   | 1x55                                                  | 1x76              | N/A            |
|                 |                      | TF4, bits   | 1x58                                                  | 1x99              | N/A            |
|                 |                      | TF5, bits   | 1x65                                                  | N/A               | N/A            |
|                 | TTI, ms              |             | 20                                                    | 20                | 20             |
|                 | Coding typ           | е           | CC 1/3                                                | CC 1/3            | CC 1/2         |
|                 | CRC, bit             |             | 12                                                    | N/A               | N/A            |

|                                                                                                                                                                                                                 | Max number of bits/TTI after channel coding         | 255     | 321     | 96      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------|---------|---------|
|                                                                                                                                                                                                                 | Max number of bits/radio frame before rate matching | 128     | 161     | 48      |
|                                                                                                                                                                                                                 | RM attribute                                        | 180-220 | 170-210 | 215-256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222). |                                                     |         |         |         |

6.10.3.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.5a.2.1.3 TFCS

| TFCS size        | 12                                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=                                                      |
|                  | (TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),                              |
|                  | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),                              |
|                  | (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)                               |
| Note: In case TI | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.5a.2.2 Physical channel parameters

| DPCH Downlink | Midamble 512 chips                   |                              |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 1 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.40                         |

6.10.3.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.6.1 Uplink

6.10.3.4.1.6.1.1 Transport channel parameters

### 6.10.3.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |  |  |
|-----------------|----------------------|-------------------------|----------------|--|--|
| RLC             | Logical channel type | DTO                     | CH             |  |  |
|                 | RLC mode             | TM                      | TM             |  |  |
|                 | Payload sizes, bit   | 39, 75 (alt. 0, 39, 75) | 84             |  |  |
|                 | Max data rate, bps   | 799                     | 7950           |  |  |
|                 | TrD PDU header, bit  | 0                       | 0              |  |  |
| MAC             | MAC header, bit      | 0                       | )              |  |  |
|                 | MAC multiplexing     | N/                      | Ά              |  |  |
| Layer 1         | TrCH type            | DCH                     | DCH            |  |  |
|                 | TB sizes, bit        | 39, 75 (alt. 0, 39, 75) | 84             |  |  |
|                 | TFS TF0, bits        | 0x75 (alt. 1x0) (note)  | 0x84           |  |  |
|                 | TF1, bits            | 1x39                    | 1x84           |  |  |

| TF2, bits                                                                                                          | 1x75    | N/A     |
|--------------------------------------------------------------------------------------------------------------------|---------|---------|
| TTI, ms                                                                                                            | 20      | 20      |
| Coding type                                                                                                        | CC 1/3  | CC 1/3  |
| CRC, bit                                                                                                           | 12      | N/A     |
| Max number of bits/TTI after channel coding                                                                        | 285     | 276     |
| Max number of bits/radio frame before rate                                                                         | 143     | 138     |
| matching                                                                                                           |         |         |
| RM attribute                                                                                                       | 180-220 | 170-210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number |         |         |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in TS25.222).

## 6.10.3.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.6.1.1.3 TFCS

| TFCS size         | 6                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------|
| TFCS              | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                   |
|                   | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                      |
|                   | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                       |
| Note: In case TB: | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.6.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.44                        |

#### 6.10.3.4.1.6.2 Downlink

## 6.10.3.4.1.6.2.1 Transport channel parameters

## 6.10.3.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                |           | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|----------------------------------|-----------|-------------------------|----------------|--|
| RLC             | Logical channel type             |           | DTC                     | Н              |  |
|                 | RLC mode                         | 9         | TM                      | TM             |  |
|                 | Payload s                        | izes, bit | 39, 75 (alt. 0, 39, 75) | 84             |  |
|                 | Max data rate, bps               |           | 795                     | 7950           |  |
|                 | TrD PDU header, bit              |           | 0                       | 0              |  |
| MAC             | MAC header, bit MAC multiplexing |           | 0                       |                |  |
|                 |                                  |           | N/A                     | \              |  |
| Layer 1         | TrCH type                        |           | DCH                     | DCH            |  |
|                 | TB sizes,                        | bit       | 39, 75 (alt. 0, 39, 75) | 84             |  |
|                 | TFS                              | TF0, bits | 0x75 (alt. 1x0 ) (note) | 0x84           |  |
|                 | (note 1)                         | TF1, bits | 1x39                    | 1x84           |  |

| TF2, bits                                   | 1x75    | N/A     |
|---------------------------------------------|---------|---------|
| TTI, ms                                     | 20      | 20      |
| Coding type                                 | CC 1/3  | CC 1/3  |
| CRC, bit                                    | 12      | N/A     |
| Max number of bits/TTI after channel coding | 285     | 276     |
| Max number of bits/radio frame before rate  | 143     | 138     |
| matching                                    |         |         |
| RM attribute                                | 180-220 | 170-210 |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

### 6.10.3.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.6.2.1.3 TFCS

| TFCS size        | 6                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                   |
|                  | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                      |
|                  | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                       |
| Note: In case TB | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.6.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

# 6.10.3.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7.1 Uplink

#### 6.10.3.4.1.7.1.1 Transport channel parameters

### 6.10.3.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher<br>Layer  | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |  |
|------------------|----------------------|-------------------------|----------------|--|
| RLC              | Logical channel type | DTC                     | CH             |  |
|                  | RLC mode             | TM                      | TM             |  |
|                  | Payload sizes, bit   | 39, 61 (alt. 0, 39, 61) | 87             |  |
|                  | Max data rate, bps   | 740                     | 7400           |  |
|                  | TrD PDU header, bit  | 0                       | 0              |  |
| MAC              | MAC header, bit      | 0                       |                |  |
| MAC multiplexing |                      | N/A                     | A              |  |
| Layer 1          | TrCH type            | DCH                     | DCH            |  |
|                  | TB sizes, bit        | 39, 61 (alt. 0, 39, 61) | 87             |  |
|                  | TFS TF0, bits        | 0x61 (alt. 1x0) (note)  | 0x87           |  |
|                  | TF1, bits            | 1x39                    | 1x87           |  |

| TF2, bits                                                                                                                                                                  | 1x61    | N/A     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| TTI, ms                                                                                                                                                                    | 20      | 20      |
| Coding type                                                                                                                                                                | CC 1/3  | CC 1/3  |
| CRC, bit                                                                                                                                                                   | 12      | N/A     |
| Max number of bits/TTI after channel coding                                                                                                                                | 243     | 285     |
| Max number of bits/radio frame before rate                                                                                                                                 | 122     | 143     |
| matching                                                                                                                                                                   |         |         |
| RM attribute                                                                                                                                                               | 180-220 | 170-210 |
| OTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222). |         |         |

6.10.3.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.7.1.1.3 TFCS

| TFCS size         | 6                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------|
| TFCS              | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                   |
|                   | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                      |
|                   | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                       |
| Note: In case TB: | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.7.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC 2 bits                           |                             |
|             | Puncturing Limit                     | 0.48                        |

### 6.10.3.4.1.7.2 Downlink

## 6.10.3.4.1.7.2.1 Transport channel parameters

## 6.10.3.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher<br>Layer | RAB/Sign             | alling RB | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|----------------------|-----------|-------------------------|----------------|--|
| RLC             | Logical channel type |           | DTC                     | DTCH           |  |
|                 | RLC mode             | e         | TM                      | TM             |  |
|                 | Payload s            | izes, bit | 39, 61 (alt. 0, 39, 61) | 87             |  |
|                 | Max data             | rate, bps | 740                     | 7400           |  |
|                 | TrD PDU header, bit  |           | 0                       |                |  |
| MAC             | MAC header, bit      |           | 0                       | 0              |  |
|                 | MAC multiplexing     |           | N/A                     | 4              |  |
| Layer 1         | TrCH type            |           | DCH                     | DCH            |  |
| -               | TB sizes, bit        |           | 39, 61 (alt. 0, 39, 61) | 87             |  |
|                 | TFS                  | TF0, bits | 0x61(alt. 1x0) (note)   | 0x87           |  |
|                 | (note 1)             | TF1, bits | 1x39                    | 1x87           |  |
|                 |                      | TF2, bits | 1x61                    | N/A            |  |
|                 | TTI, ms              |           | 20                      | 20             |  |
|                 | Coding type          |           | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit             |           | 12                      | N/A            |  |

| 243                          | 285            |
|------------------------------|----------------|
| 122                          | 143            |
|                              |                |
| 180-220                      | 170-210        |
| Lany time since number of Tr |                |
|                              | 122<br>180-220 |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in TS25.222).

#### 6.10.3.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.7.2.1.3 TFCS

| TFCS size        | 6                                                                                                  |
|------------------|----------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, DCCH)=                                                              |
|                  | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                 |
|                  | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                  |
| Note: in case TE | B size zero is configured for any transport channel, the first TFC is required; optional otherwise |

## 6.10.3.4.1.7.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

6.10.3.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7a.1 Uplink

6.10.3.4.1.7a.1.1 Transport channel parameters

# 6.10.3.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Sig             | nalling RB  | RAB subflow #1                                  | RAB subflow #2 |  |
|-----------------|---------------------|-------------|-------------------------------------------------|----------------|--|
| RLC             | Logical c           | hannel type | DTC                                             | CH             |  |
|                 | RLC mod             | de          | TM                                              | TM             |  |
|                 | Payload             | sizes, bit  | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |  |
|                 | Max data rate, bps  |             | 740                                             | 00             |  |
|                 | TrD PDU header, bit |             | 0                                               | 0              |  |
| MAC             | MAC MAC header, bit |             | 0                                               |                |  |
| MAC multiplexin |                     | Itiplexing  | N/A                                             | 4              |  |
| Layer 1         | TrCH typ            | e           | DCH                                             | DCH            |  |
|                 | TB sizes            | , bit       | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |  |
|                 | TFS                 | TF0, bits   | 0x61 (alt. 1x0)<br>(note)                       | 0x87           |  |
|                 |                     | TF1, bits   | 1x39                                            | 1x53           |  |

| 1                                                                                                                                                                                                               | TF2, bits                                           | 1x42    | 1x63    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------|---------|
|                                                                                                                                                                                                                 | TF3, bits                                           | 1x55    | 1x76    |
|                                                                                                                                                                                                                 | TF4, bits                                           | 1x58    | 1x87    |
|                                                                                                                                                                                                                 | TF5, bits                                           | 1x61    | N/A     |
|                                                                                                                                                                                                                 | TTI, ms                                             | 20      | 20      |
|                                                                                                                                                                                                                 | Coding type                                         | CC 1/3  | CC 1/3  |
|                                                                                                                                                                                                                 | CRC, bit                                            | 12      | N/A     |
|                                                                                                                                                                                                                 | Max number of bits/TTI after channel coding         | 243     | 285     |
|                                                                                                                                                                                                                 | Max number of bits/radio frame before rate matching | 122     | 143     |
|                                                                                                                                                                                                                 | RM attribute                                        | 180-220 | 170-210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222). |                                                     |         |         |

## 6.10.3.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

#### 6.10.3.4.1.7a.1.1.3 TFCS

| TFCS size          | 12                                                                                                     |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                  |
|                    | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5,             |
|                    | TF4, TF0),                                                                                             |
|                    | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5,             |
|                    | TF4, TF1)                                                                                              |
| Note: In case TB s | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

### 6.10.3.4.1.7a.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48                        |

### 6.10.3.4.1.7a.2 Downlink

## 6.10.3.4.1.7a.2.1 Transport channel parameters

# 6.10.3.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher<br>layer | RAB/Sig             | nalling RB   | RAB subflow #1                                  | RAB subflow #2 |  |
|-----------------|---------------------|--------------|-------------------------------------------------|----------------|--|
| RLC             | Logical o           | channel type | DTC                                             | DTCH           |  |
|                 | RLC mo              | de           | TM                                              | TM             |  |
|                 | Payload sizes, bit  |              | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |  |
|                 | Max data rate, bps  |              | 740                                             | 7400           |  |
|                 | TrD PDU header, bit |              | 0                                               | 0              |  |
| MAC             | MAC hea             | ader, bit    | 0                                               |                |  |
|                 | MAC multiplexing    |              | N/A                                             |                |  |
| Layer 1         | /er 1 TrCH type     |              | DCH                                             | DCH            |  |
|                 | TB sizes, bit       |              | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |  |
|                 | TFS                 | TF0, bits    | 0x61 (alt. 1x0)<br>(note)                       | 0x87           |  |

| 1                                                                                                                                                                                                               | TF1, bits                                   | 1x39           | 1x53    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|---------|
|                                                                                                                                                                                                                 | TF2, bits                                   | 1x42           | 1x63    |
|                                                                                                                                                                                                                 | TF3, bits                                   | 1x55           | 1x76    |
|                                                                                                                                                                                                                 | TF4, bits                                   | 1x58           | 1x87    |
|                                                                                                                                                                                                                 | TF5, bits                                   | 1x61           | N/A     |
|                                                                                                                                                                                                                 | TTI, ms                                     | 20             | 20      |
|                                                                                                                                                                                                                 | Coding type                                 | CC 1/3         | CC 1/3  |
|                                                                                                                                                                                                                 | CRC, bit                                    | 12             | N/A     |
|                                                                                                                                                                                                                 | Max number of bits/TTI after chann          | nel coding 243 | 285     |
|                                                                                                                                                                                                                 | Max number of bits/radio frame bef matching | fore rate 122  | 143     |
|                                                                                                                                                                                                                 | RM attribute                                | 180-220        | 170-210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222). |                                             |                |         |

6.10.3.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.7a.2.1.3 TFCS

| TFCS size                                                                                                               | 12                                                                                         |  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--|
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, DCCH)=                                                      |  |
|                                                                                                                         | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, |  |
|                                                                                                                         | TF4, TF0),                                                                                 |  |
|                                                                                                                         | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, |  |
|                                                                                                                         | TF4, TF1)                                                                                  |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                            |  |

### 6.10.3.4.1.7a.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

6.10.3.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.8.1 Uplink

6.10.3.4.1.8.1.1 Transport channel parameters

### 6.10.3.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher<br>Layer          | RAB/Signalling RB   | RAB subflow #1          | RAB subflow #2 |  |
|--------------------------|---------------------|-------------------------|----------------|--|
| RLC Logical channel type |                     | DTO                     | DTCH           |  |
|                          | RLC mode            | TM                      | TM             |  |
|                          | Payload sizes, bit  | 39, 58 (alt. 0, 39, 58) | 76             |  |
|                          | Max data rate, bps  | 670                     | 00             |  |
|                          | TrD PDU header, bit | C                       | 0              |  |
| MAC                      | MAC header, bit     | C                       | )              |  |
|                          | MAC multiplexing    | N/                      | N/A            |  |
| Layer 1                  | TrCH type           | DCH                     | DCH            |  |
|                          | TB sizes, bit       | 39, 58 (alt. 0, 39, 58) | 76             |  |
|                          | TFS TF0, bits       | 0x58 (alt. 1x0) (note)  | 0x76           |  |
|                          | TF1, bits           | 1x39                    | 1x76           |  |

| 1        | TF2, bits                                                                                   | 1x58   | N/A     |
|----------|---------------------------------------------------------------------------------------------|--------|---------|
| TTI,     | ms                                                                                          | 20     | 20      |
| Codi     | ng type                                                                                     | CC 1/3 | CC 1/3  |
| CRC      | , bit                                                                                       | 12     | N/A     |
| Max      | number of bits/TTI after channel coding                                                     | 234    | 252     |
| Max      | number of bits/radio frame before rate                                                      | 117    | 126     |
| mato     | ching                                                                                       |        |         |
| RM a     | RM attribute                                                                                |        | 170-210 |
|          |                                                                                             |        |         |
| of TrBlk | of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222). |        |         |

6.10.3.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.8.1.1.3 TFCS

| TFCS size         | 6                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------|
| TFCS              | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                   |
|                   | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                      |
|                   | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                       |
| Note: In case TB: | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.8.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.52                        |

6.10.3.4.1.8.2 Downlink

6.10.3.4.1.8.2.1 Transport channel parameters

### 6.10.3.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher<br>Layer | RAB/Sign             | alling RB  | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|----------------------|------------|-------------------------|----------------|--|
| RLC             | Logical channel type |            | DTC                     | DTCH           |  |
|                 | RLC mod              | e          | TM                      | TM             |  |
|                 | Payload s            | sizes, bit | 39, 58 (alt. 0, 39, 58) | 76             |  |
|                 | Max data             | rate, bps  | 670                     | 6700           |  |
|                 | TrD PDU header, bit  |            | 0                       | 0              |  |
| MAC             | MAC header, bit      |            | 0                       | 0              |  |
|                 | MAC multiplexing     |            | N/A                     | N/A            |  |
| Layer 1         | TrCH type            |            | DCH                     | DCH            |  |
| ^               | TB sizes, bit        |            | 39, 58 (alt. 0,39,58)   | 76             |  |
|                 | TFS                  | TF0, bits  | 0x58 (alt.1x0) (note)   | 0x76           |  |
|                 | (note 1)             | TF1, bits  | 1x39                    | 1x76           |  |
|                 |                      | TF2, bits  | 1x58                    | N/A            |  |
|                 | TTI, ms              |            | 20                      | 20             |  |
|                 | Coding type          |            | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit             |            | 12                      | N/A            |  |

| Max number of bits/TTI after channel coding         | 234     | 252     |
|-----------------------------------------------------|---------|---------|
| Max number of bits/radio frame before rate matching | 117     | 126     |
| RM attribute                                        | 180-220 | 170-210 |
| ).                                                  |         |         |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

#### 6.10.3.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.8.2.1.3 TFCS

| TFCS size           | 6                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                 |
|                     | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                    |
|                     | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                     |
| Note: In case TB si | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.8.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.52                        |

# 6.10.3.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.9.1 Uplink

6.10.3.4.1.9.1.1 Transport channel parameters

#### 6.10.3.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher<br>Layer | RAB/Sign            | alling RB | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|---------------------|-----------|-------------------------|----------------|--|
| RLC             |                     |           | DTO                     | CH             |  |
|                 | RLC mod             | e         | TM                      | TM             |  |
|                 | Payload s           | izes, bit | 39, 55 (alt. 0, 39, 55) | 63             |  |
|                 | Max data            | rate, bps | 590                     | 00             |  |
|                 | TrD PDU header, bit |           | 0                       | 0              |  |
| MAC             | MAC header, bit     |           | 0                       | 0              |  |
|                 | MAC multiplexing    |           | N/.                     | N/A            |  |
| Layer 1         | TrCH type           |           | DCH                     | DCH            |  |
|                 | TB sizes, bit       |           | 39, 55 (alt. 0, 39, 55) | 63             |  |
|                 | TFS                 | TF0, bits | 0x55 (alt. 1x0) (note)  | 0x63           |  |
|                 |                     | TF1, bits | 1x39                    | 1x63           |  |
|                 |                     | TF2, bits | 1x55                    | N/A            |  |
|                 | TTI, ms             |           | 20                      | 20             |  |
|                 | Coding type         |           | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit            |           | 12                      | N/A            |  |

| Ī                                          | Max number of bits/TTI after channel coding                                                                        | 225     | 213     |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------|---------|
| Max number of bits/radio frame before rate |                                                                                                                    | 113     | 107     |
| matching                                   |                                                                                                                    |         |         |
| RM attribute                               |                                                                                                                    | 180-220 | 170-210 |
| NOTE:                                      | NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number |         |         |
|                                            | of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).                       |         |         |

6.10.3.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.9.1.1.3 TFCS

| TFCS size             | 6                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                 |
|                       | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                    |
|                       | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                     |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.9.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.56                        |

### 6.10.3.4.1.9.2 Downlink

# 6.10.3.4.1.9.2.1 Transport channel parameters

# 6.10.3.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher<br>Layer | RAB/Sign             | alling RB | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|----------------------|-----------|-------------------------|----------------|--|
| RLC             | Logical channel type |           | DTC                     | :H             |  |
|                 | RLC mode             | e         | TM                      | TM             |  |
|                 | Payload s            | izes, bit | 39, 55 (alt. 0, 39, 55) | 63             |  |
|                 | Max data             | rate, bps | 590                     | 0              |  |
|                 | TrD PDU header, bit  |           | 0                       | 0              |  |
| MAC             | MAC header, bit      |           | 0                       | 0              |  |
|                 | MAC multiplexing     |           | N/A                     | N/A            |  |
| Layer 1         | TrCH type            |           | DCH                     | DCH            |  |
|                 | TB sizes, bit        |           | 39, 55 (alt. 0, 39, 55) | 63             |  |
|                 | TFS                  | TF0, bits | 0x55 (alt. 1x0) (note)  | 0x63           |  |
|                 | (note 1)             | TF1, bits | 1x39                    | 1x63           |  |
|                 |                      | TF2, bits | 1x55                    | N/A            |  |
|                 | TTI, ms              |           | 20                      | 20             |  |
|                 | Coding type          |           | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit             |           | 12                      | N/A            |  |

|                                            | Max number of bits/TTI after channel coding                                                                      | 225     | 213     |  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------|---------|--|
| Max number of bits/radio frame before rate |                                                                                                                  | 113     | 107     |  |
|                                            | matching                                                                                                         |         |         |  |
| RM attribute                               |                                                                                                                  | 180-220 | 170-210 |  |
| NOTE:                                      | NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is |         |         |  |
|                                            | no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).                                                       |         |         |  |

6.10.3.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.9.2.1.3 TFCS

| TFCS size             | 6                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                 |
|                       | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                    |
|                       | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                     |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.9.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.56                        |

6.10.3.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.10.1 Uplink

6.10.3.4.1.10.1.1 Transport channel parameters

#### 6.10.3.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |  |  |
|-----------------|----------------------|-------------------------|----------------|--|--|
| RLC             | Logical channel type | DTO                     | CH             |  |  |
|                 | RLC mode             | TM                      | TM             |  |  |
|                 | Payload sizes, bit   | 39, 49 (alt. 0, 39, 49) | 54             |  |  |
|                 | Max data rate, bps   | 515                     | 5150           |  |  |
|                 | TrD PDU header, bit  | 0                       | 0              |  |  |
| MAC             | MAC header, bit      | 0                       |                |  |  |
|                 | MAC multiplexing     | MAC multiplexing N/A    |                |  |  |
| Layer 1         | TrCH type            | DCH                     | DCH            |  |  |
|                 | TB sizes, bit        | 39, 49 (alt. 0, 39, 49) | 54             |  |  |
|                 | TFS TF0, bits        | 0x49 (alt. 1x0) (note)  | 0x54           |  |  |
|                 | TF1, bits            | 1x39                    | 1x54           |  |  |

| TF2, bits                                   | 1x49    | N/A     |
|---------------------------------------------|---------|---------|
| TTI, ms                                     | 20      | 20      |
| Coding type                                 | CC 1/3  | CC 1/3  |
| CRC, bit                                    | 12      | N/A     |
| Max number of bits/TTI after channel coding | 207     | 186     |
| Max number of bits/radio frame before rate  | 104     | 93      |
| matching                                    |         |         |
| RM attribute                                | 180-220 | 170-210 |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).

# 6.10.3.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.

#### 6.10.3.4.1.10.1.1.3 TFCS

| TFCS size        | 6                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                     |
|                  | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                        |
|                  | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                         |
| Note: In case TE | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.10.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.72                        |

6.10.3.4.1.10.2 Downlink

6.10.3.4.1.10.2.1 Transport channel parameters

### 6.10.3.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher                   | RAB/Signa           | alling RB   | RAB subflow #1          | RAB subflow #2 |  |
|--------------------------|---------------------|-------------|-------------------------|----------------|--|
| Layer                    |                     |             |                         |                |  |
| RLC Logical channel type |                     | DTO         | CH                      |                |  |
|                          | RLC mode            | 9           | TM                      | TM             |  |
|                          | Payload si          | izes, bit   | 39, 49 (alt. 0, 39, 49) | 54             |  |
|                          | Max data            | rate, bps   | 515                     | 50             |  |
|                          | TrD PDU I           | neader, bit | 0                       |                |  |
| MAC MAC header, bit      |                     | der, bit    | 0                       |                |  |
|                          | MAC multiplexing    |             | N/.                     | N/A            |  |
| Layer 1                  | TrCH type           |             | DCH                     | DCH            |  |
|                          | TB sizes, I         | bit         | 39, 49 (alt. 0, 39, 49) | 54             |  |
|                          | TFS                 | TF0, bits   | 0x49 (alt. 1x0) (note)  | 0x54           |  |
|                          | (note 1)            | TF1, bits   | 1x39                    | 1x54           |  |
|                          |                     | TF2, bits   | 1x49                    | N/A            |  |
|                          | TTI, ms Coding type |             | 20                      | 20             |  |
|                          |                     |             | CC 1/3                  | CC 1/3         |  |
|                          | CRC, bit            | ·           | 12                      | N/A            |  |

|                                            | Max number of bits/TTI after channel coding                                                                      | 207     | 186     |  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------|---------|--|
| Max number of bits/radio frame before rate |                                                                                                                  | 104     | 93      |  |
| matching                                   |                                                                                                                  |         |         |  |
| RM attribute                               |                                                                                                                  | 180-220 | 170-210 |  |
| NOTE:                                      | NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is |         |         |  |
|                                            | no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).                                                       |         |         |  |

6.10.3.4.1.10.2.1.2 Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

#### 6.10.3.4.1.10.2.1.3 TFCS

| TFCS size       | 6                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                     |
|                 | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                        |
|                 | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                         |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.10.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.72                        |

6.10.3.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.11.1 Uplink

6.10.3.4.1.11.1.1 Transport channel parameters

# 6.10.3.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|----------------------|-------------------------|----------------|--|
| RLC             | Logical channel type | DTC                     | Н              |  |
|                 | RLC mode             | TM                      | TM             |  |
|                 | Payload sizes, bit   | 39, 42 (alt. 0, 39, 42) | 53             |  |
|                 | Max data rate, bps   | 475                     | 50             |  |
|                 | TrD PDU header, bit  | 0                       |                |  |
| MAC             | MAC header, bit      | 0                       | 0              |  |
|                 | MAC multiplexing     | N/A                     | N/A            |  |
| Layer 1         | TrCH type            | DCH                     | DCH            |  |
|                 | TB sizes, bit        | 39, 42 (alt. 0, 39, 42) | 53             |  |
|                 | TFS TF0, bits        | 0x42 (alt. 1x0) (note)  | 0x53           |  |
|                 | TF1, bits            | 1x39                    | 1x53           |  |
|                 | TF2, bits            | 1x42                    | N/A            |  |
|                 | TTI, ms              | 20                      | 20             |  |
|                 | Coding type          | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit             | 12                      | N/A            |  |

|                                                                                                                                                                                                                | Max number of bits/TTI after channel coding | 186     | 183     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|---------|
| Max number of bits/radio frame before rate                                                                                                                                                                     |                                             | 93      | 92      |
|                                                                                                                                                                                                                | matching                                    |         |         |
| RM attribute                                                                                                                                                                                                   |                                             | 180-220 | 170-210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222) |                                             |         |         |

# 6.10.3.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.

#### 6.10.3.4.1.11.1.3 TFCS

| TFCS size       | 6                                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, DCCH)=                                                                     |
|                 | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),                                                        |
|                 | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                         |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.11.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.76                        |

### 6.10.3.4.1.11.2 Downlink

# 6.10.3.4.1.11.2.1 Transport channel parameters

# 6.10.3.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher<br>Layer | RAB/Signa            | alling RB | RAB subflow #1          | RAB subflow #2 |  |
|-----------------|----------------------|-----------|-------------------------|----------------|--|
| RLC             | Logical channel type |           | DTC                     | H              |  |
|                 | RLC mode             |           | TM                      | TM             |  |
|                 | Payload siz          | zes, bit  | 39, 42 (alt. 0, 39, 42) | 53             |  |
|                 | Max data r           | ate, bps  | 475                     | 50             |  |
|                 | TrD PDU header, bit  |           | 0                       | 0              |  |
| MAC             | MAC header, bit      |           | 0                       | 0              |  |
|                 | MAC multiplexing     |           | N/A                     | N/A            |  |
| Layer 1         | TrCH type            |           | DCH                     | DCH            |  |
| -               | TB sizes, bit        |           | 39, 42 (alt. 0, 39, 42) | 53             |  |
|                 | TFS                  | TF0, bits | 0X42 (alt.1x0 )(note)   | 0x53           |  |
|                 | (note 1)             | TF1, bits | 1x39                    | 1x53           |  |
|                 |                      | TF2, bits | 1x42                    | N/A            |  |
|                 | TTI, ms              |           | 20                      | 20             |  |
|                 | Coding type          |           | CC 1/3                  | CC 1/3         |  |
|                 | CRC, bit             |           | 12                      | N/A            |  |

|       | Max number of bits/TTI after channel coding                                                                   | 186     | 183     |
|-------|---------------------------------------------------------------------------------------------------------------|---------|---------|
|       | Max number of bits/radio frame before rate                                                                    | 93      | 92      |
|       | matching                                                                                                      |         |         |
|       | RM attribute                                                                                                  | 180-220 | 170-210 |
| NOTE: | E: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is |         |         |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).

# 6.10.3.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

# 6.10.3.4.1.11.2.1.3 TFCS

| TFCS size                                                                                                                | 6                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=              |  |
|                                                                                                                          | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), |  |
| (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)                                                                        |                                                    |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                    |  |

# 6.10.3.4.1.11.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.76                        |

6.10.3.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.12.1 Uplink

6.10.3.4.1.12.1.1 Transport channel parameters

# 6.10.3.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | TM      |
|                 | Payload sizes, bit                          | 576     |
|                 | Max data rate, bps                          | 28800   |
|                 | TrD PDU header, bit                         | 0       |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 576     |
|                 | TFS TF0, bits                               | 0x576   |
|                 | TF1, bits                                   | 1x576   |
|                 |                                             |         |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 3564    |
|                 | Max number of bits/radio frame before rate  | 891     |
|                 | matching                                    |         |
|                 | RM attribute                                | 160-200 |

# 6.10.3.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.12.1.1.3 TFCS

| TFCS size                                                                                                                | 4                                              |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--|
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=                         |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                |  |

# 6.10.3.4.1.12.1.2 Physical channel parameters

| DPCH Uplink                                                                           | Midamble                             | 512 chips                  |
|---------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
|                                                                                       | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|                                                                                       | Max. Number of data bits/radio frame | 904 bits                   |
|                                                                                       | TFCI code word                       | 16 bits                    |
|                                                                                       | TPC                                  | 2 bits                     |
| Puncturing Limit 0                                                                    |                                      | 0.76                       |
| Note: In case the first TFC in a TFCS is not configured, the TFCI code word will be 8 |                                      |                            |
| bits                                                                                  |                                      |                            |

6.10.3.4.1.12.2 Downlink

6.10.3.4.1.12.2.1 Transport channel parameters

# 6.10.3.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB     |
|-----------------|-----------------------------------------------------|---------|
| RLC             | Logical channel type                                | DTCH    |
|                 | RLC mode                                            | TM      |
|                 | Payload sizes, bit                                  | 576     |
|                 | Max data rate, bps                                  | 28800   |
|                 | TrD PDU header, bit                                 | 0       |
| MAC             | MAC header, bit                                     | 0       |
|                 | MAC multiplexing                                    | N/A     |
| Layer 1         | TrCH type                                           | DCH     |
|                 | TB sizes, bit                                       | 576     |
|                 | TFS TF0, bits                                       | 0x576   |
|                 | TF1, bits                                           | 1x576   |
|                 |                                                     |         |
|                 | TTI, ms                                             | 20      |
|                 | Coding type                                         | TC      |
|                 | CRC, bit                                            | 16      |
|                 | Max number of bits/TTI after channel coding         | 3564    |
|                 | Max number of bits/radio frame before rate matching | 891     |
|                 | RM attribute                                        | 160-200 |

# 6.10.3.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.12.2.1.3 TFCS

| TFCS size            | 4                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                 | (28.8 kbps RAB, DCCH)=                                                                                |
|                      | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                                        |
| Note: In case TB siz | re zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.12.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                    |
|-----------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
|                                                                                         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                         | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                         | TFCI code word                       | 16 bits                      |
|                                                                                         | Puncturing limit                     | 0.40                         |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 |                                      |                              |
| bits                                                                                    |                                      |                              |

6.10.3.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

Uplink 6.10.3.4.1.13.1

6.10.3.4.1.13.1.1 Transport channel parameters

#### 6.10.3.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling                              | RB        | RAB     |
|-----------------|---------------------------------------------|-----------|---------|
| RLC             | Logical channel type                        |           | DTCH    |
|                 | RLC mode                                    |           | TM      |
|                 | Payload sizes, b                            | pit       | 640     |
|                 | Max data rate, b                            | pps       | 64000   |
|                 | TrD PDU heade                               | r, bit    | 0       |
| MAC             | MAC header, bit                             |           | 0       |
|                 | MAC multiplexing                            |           | N/A     |
| Layer 1         | TrCH type                                   |           | DCH     |
| -               | TB sizes, bit                               |           | 640     |
|                 | TFS                                         | TF0, bits | 0x640   |
|                 |                                             | TF1, bits | 2x640   |
|                 | TTI, ms                                     |           | 20      |
|                 | Coding type                                 |           | TC      |
|                 | CRC, bit                                    |           | 16      |
|                 | Max number of bits/TTI after channel coding |           | 3948    |
|                 | Max number of bits/radio frame before rate  |           | 1974    |
|                 | matching                                    |           |         |
|                 | RM attribute                                |           | 150-195 |

#### 6.10.3.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.13.1.1.3 **TFCS**

| TFCS size             | 4                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                    |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.13.1.2 Physical channel parameters

| DPCH Uplink                                                                                   | Midamble                             | 512 chips                                    |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------|
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot + SF4 x 1 code x |
|                                                                                               |                                      | 1 time slot                                  |
|                                                                                               | Max. Number of data bits/radio frame | 1148 bits                                    |
|                                                                                               | TFCI code word                       | 16 bits                                      |
|                                                                                               | TPC                                  | 2 bits                                       |
|                                                                                               | Puncturing Limit                     | 0.48                                         |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. |                                      |                                              |

6.10.3.4.1.13.2 Downlink

6.10.3.4.1.13.2.1 Transport channel parameters

# 6.10.3.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

| Higher       | RAB/Signalling RB                           |           | RAB     |
|--------------|---------------------------------------------|-----------|---------|
| Layer<br>RLC | Logical channel type                        |           | DTCH    |
| 0            | RLC mode                                    |           | TM      |
|              | Payload sizes, bit                          |           | 640     |
|              | Max data rate, b                            |           | 64000   |
|              | TrD PDU heade                               |           | 0       |
| MAC          | MAC header, bi                              | t         | 0       |
|              | MAC multiplexing                            |           | N/A     |
| Layer 1      | TrCH type                                   |           | DCH     |
|              | TB sizes, bit                               |           | 640     |
|              | TFS                                         | TF0, bits | 0x640   |
|              |                                             | TF1, bits | 2x640   |
|              | TTI, ms                                     |           | 20      |
|              | Coding type                                 |           | TC      |
|              | CRC, bit                                    |           | 16      |
|              | Max number of bits/TTI after channel coding |           | 3948    |
|              | Max number of bits/radio frame before rate  |           | 1974    |
|              | matching                                    |           |         |
|              | RM attribute                                |           | 150-195 |

# 6.10.3.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.13.2.1.3 TFCS

| TFCS size                                                                                                                | 4                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |  |

#### 6.10.3.4.1.13.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                    |  |
|-----------------------------------------------------------------------------------------|--------------------------------------|------------------------------|--|
|                                                                                         | Codes and time slots                 | SF16 x 5 codes x 1 time slot |  |
|                                                                                         | Max. Number of data bits/radio frame | 1204 bits                    |  |
|                                                                                         | TFCI code word                       | 16 bits                      |  |
|                                                                                         | Puncturing limit                     | 0.52                         |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 |                                      |                              |  |
| bits                                                                                    |                                      |                              |  |

6.10.3.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.14.1 Uplink

6.10.3.4.1.14.1.1 Transport channel parameters

#### 6.10.3.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

| Higher  | RAB/Signalling RB                           | RAB     |
|---------|---------------------------------------------|---------|
| Layer   |                                             |         |
| RLC     | Logical channel type                        | DTCH    |
|         | RLC mode                                    | TM      |
|         | Payload sizes, bit                          | 640     |
|         | Max data rate, bps                          | 32000   |
|         | TrD PDU header, bit                         | 0       |
| MAC     | MAC header, bit                             | 0       |
|         | MAC multiplexing                            | N/A     |
| Layer 1 | TrCH type                                   | DCH     |
|         | TB sizes, bit                               | 640     |
|         | TFS TF0, bits                               | 0x640   |
|         | TF1, bits                                   | 1x640   |
|         | TTI, ms                                     | 20      |
|         | Coding type                                 | TC      |
|         | CRC, bit                                    | 16      |
|         | Max number of bits/TTI after channel coding | 1980    |
|         | Max number of bits/radio frame before rate  | 990     |
|         | matching                                    |         |
|         | RM attribute                                | 165-210 |

# 6.10.3.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.14.1.1.3 TFCS

| TFCS size        | 4                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------|
| TFCS             | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                      |
| Note: In case TB | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.14.1.2 Physical channel parameters

| DPCH Uplink                                                                           | Midamble                             | 512 chips                  |  |  |
|---------------------------------------------------------------------------------------|--------------------------------------|----------------------------|--|--|
|                                                                                       | Codes and time slots                 | SF4 x 1 code x 1 time slot |  |  |
|                                                                                       | Max. Number of data bits/radio frame | 904 bits                   |  |  |
|                                                                                       | TFCI code word                       | 16 bits                    |  |  |
|                                                                                       | TPC                                  | 2 bits                     |  |  |
|                                                                                       | Puncturing Limit                     | 0.68                       |  |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be |                                      |                            |  |  |
| 8 bits                                                                                | 8 bits                               |                            |  |  |

6.10.3.4.1.14.2 Downlink

6.10.3.4.1.14.2.1 Transport channel parameters

# 6.10.3.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

| Higher<br>Layer | RAB/Sig                                     | nalling RB    | RAB     |
|-----------------|---------------------------------------------|---------------|---------|
| RLC             | Logical channel type                        |               | DTCH    |
|                 | RLC mode                                    |               | TM      |
|                 | Payload                                     | sizes, bit    | 640     |
|                 | Max dat                                     | a rate, bps   | 32000   |
|                 | TrD PDI                                     | J header, bit | 0       |
| MAC             | MAC header, bit                             |               | 0       |
|                 | MAC multiplexing                            |               | N/A     |
| Layer 1         | TrCH type                                   |               | DCH     |
| -               | TB sizes, bit                               |               | 640     |
|                 | TFS                                         | TF0, bits     | 0x640   |
|                 |                                             | TF1, bits     | 1x640   |
|                 | TTI, ms                                     |               | 20      |
|                 | Coding type                                 |               | TC      |
|                 | CRC, bit                                    |               | 16      |
|                 | Max number of bits/TTI after channel coding |               | 1980    |
|                 | Max number of bits/radio frame before rate  |               | 990     |
|                 | matching                                    |               |         |
|                 | RM attribute                                |               | 165-210 |

6.10.3.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.14.2.1.3 TFCS

| TFCS size                                                                                                                | 4                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |  |

#### 6.10.3.4.1.14.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                    |  |
|-----------------------------------------------------------------------------------------|--------------------------------------|------------------------------|--|
|                                                                                         | Codes and time slots                 | SF16 x 3 codes x 1 time slot |  |
|                                                                                         | Max. Number of data bits/radio frame | 716 bits                     |  |
|                                                                                         | TFCI code word                       | 16 bits                      |  |
|                                                                                         | Puncturing limit                     | 0.52                         |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 |                                      |                              |  |
| bits                                                                                    |                                      |                              |  |

6.10.3.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.15.1 Uplink

6.10.3.4.1.15.1.1 Transport channel parameters

# 6.10.3.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

| Higher  | RAB/Signalling RB                           | RAB     |
|---------|---------------------------------------------|---------|
| Layer   |                                             |         |
| RLC     | Logical channel type                        | DTCH    |
|         | RLC mode                                    | TM      |
|         | Payload sizes, bit                          | 576     |
|         | Max data rate, bps                          | 14400   |
|         | TrD PDU header, bit                         | 0       |
| MAC     | MAC header, bit                             | 0       |
|         | MAC multiplexing                            | N/A     |
| Layer 1 | TrCH type                                   | DCH     |
|         | TB sizes, bit                               | 576     |
|         | TFS TF0, bits                               | 0x576   |
|         | TF1, bits                                   | 1x576   |
|         | TTI, ms                                     | 40      |
|         | Coding type                                 | TC      |
|         | CRC, bit                                    | 16      |
|         | Max number of bits/TTI after channel coding | 1788    |
|         | Max number of bits/radio frame before rate  | 447     |
|         | matching                                    |         |
|         | RM attribute                                | 145-185 |

# 6.10.3.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.15.1.1.3 TFCS

| TFCS size                                                                                                                | 4                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                      |  |

#### 6.10.3.4.1.15.1.2 Physical channel parameters

| DPCH Uplink                                                                                  | Midamble                             | 512 chips                  |
|----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
|                                                                                              | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|                                                                                              | Max. Number of data bits/radio frame | 452bits                    |
|                                                                                              | TFCI code word                       | 16 bits                    |
|                                                                                              | TPC                                  | 2 bits                     |
|                                                                                              | Puncturing Limit                     | 0.76                       |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits |                                      |                            |

6.10.3.4.1.15.2 Downlink

6.10.3.4.1.15.2.1 Transport channel parameters

# 6.10.3.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB     |
|-----------------|-----------------------------------------------------|---------|
| RLC             | Logical channel type                                | DTCH    |
|                 | RLC mode                                            | TM      |
|                 | Payload sizes, bit                                  | 576     |
|                 | Max data rate, bps                                  | 14400   |
|                 | TrD PDU header, bit                                 | 0       |
| MAC             | MAC header, bit                                     | 0       |
|                 | MAC multiplexing                                    | N/A     |
| Layer 1         | TrCH type                                           | DCH     |
|                 | TB sizes, bit                                       | 576     |
|                 | TFS TF0, bits                                       | 0x576   |
|                 | TF1, bits                                           | 1x576   |
|                 | TTI, ms                                             | 40      |
|                 | Coding type                                         | TC      |
|                 | CRC, bit                                            | 16      |
|                 | Max number of bits/TTI after channel coding         | 1788    |
|                 | Max number of bits/radio frame before rate matching | 447     |
|                 | RM attribute                                        | 145-185 |

# 6.10.3.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.15.2.1.3 TFCS

| TFCS size                                                                                                                | 4                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                      |  |

# 6.10.3.4.1.15.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                    |
|-----------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
|                                                                                         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                         | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                         | TFCI code word                       | 16 bits                      |
|                                                                                         | Puncturing limit                     | 0.80                         |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 |                                      |                              |
| bits                                                                                    |                                      |                              |

6.10.3.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.16.1 Uplink

6.10.3.4.1.16.1.1 Transport channel parameters

#### 6.10.3.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB     |
|-----------------|-----------------------------------------------------|---------|
| RLC             | Logical channel type                                | DTCH    |
|                 | RLC mode                                            | TM      |
|                 | Payload sizes, bit                                  | 576     |
|                 | Max data rate, bps                                  | 28800   |
|                 | TrD PDU header, bit                                 | 0       |
| MAC             | MAC header, bit                                     | 0       |
|                 | MAC multiplexing                                    | N/A     |
| Layer 1         | TrCH type                                           | DCH     |
|                 | TB sizes, bit                                       | 576     |
|                 | TFS TF0, bits                                       | 0x576   |
|                 | TF1, bits                                           | 1x576   |
|                 |                                                     |         |
|                 | TTI, ms                                             | 20      |
|                 | Coding type                                         | TC      |
|                 | CRC, bit                                            | 16      |
|                 | Max number of bits/TTI after channel coding         | 3564    |
|                 | Max number of bits/radio frame before rate matching | 891     |
|                 | RM attribute                                        | 135-175 |

#### 6.10.3.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.16.1.1.3 TFCS

| TFCS size             | 4                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (28.8kbps RAB, DCCH)=                                                                                 |
|                       | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                                        |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.16.1.2 Physical channel parameters

| DPCH Uplink                                                                           | Midamble                             | 512 chips                  |
|---------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
|                                                                                       | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|                                                                                       | Max. Number of data bits/radio frame | 452 bits                   |
|                                                                                       | TFCI code word                       | 16 bits                    |
|                                                                                       | TPC                                  | 2 bits                     |
|                                                                                       | Puncturing Limit                     | 0.44                       |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be |                                      |                            |
| 8 bits                                                                                |                                      |                            |

6.10.3.4.1.16.2 Downlink

6.10.3.4.1.16.2.1 Transport channel parameters

# 6.10.3.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB     |
|-----------------|-----------------------------------------------------|---------|
| RLC             | Logical channel type                                | DTCH    |
|                 | RLC mode                                            | TM      |
|                 | Payload sizes, bit                                  | 576     |
|                 | Max data rate, bps                                  | 28800   |
|                 | TrD PDU header, bit                                 | 0       |
| MAC             | MAC header, bit                                     | 0       |
|                 | MAC multiplexing                                    | N/A     |
| Layer 1         | TrCH type                                           | DCH     |
|                 | TB sizes, bit                                       | 576     |
|                 | TFS TF0, bits                                       | 0x576   |
|                 | TF1, bits                                           | 1x576   |
|                 |                                                     |         |
|                 | TTI, ms                                             | 20      |
|                 | Coding type                                         | TC      |
|                 | CRC, bit                                            | 16      |
|                 | Max number of bits/TTI after channel coding         | 3564    |
|                 | Max number of bits/radio frame before rate matching | 891     |
|                 | RM attribute                                        | 135-175 |

# 6.10.3.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.16.2.1.3 TFCS

| TFCS size            | 4                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                 | (28.8kbps RAB, DCCH)=                                                                                 |
|                      | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                                        |
| Note: In case TB siz | re zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.16.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                    |
|-----------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
|                                                                                         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                         | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                         | TFCI code word                       | 16 bits                      |
|                                                                                         | Puncturing limit                     | 0.44                         |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 |                                      |                              |
| bits                                                                                    |                                      |                              |

6.10.3.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.17.1 Uplink

6.10.3.4.1.17.1.1 Transport channel parameters

# 6.10.3.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

| Higher<br>Layer | RAB/Signalling RB                                   |               | RAB     |
|-----------------|-----------------------------------------------------|---------------|---------|
| RLC             | Logical channel type                                |               | DTCH    |
| 0               | RLC mod                                             |               | TM      |
|                 |                                                     | sizes, bit    | 576     |
|                 |                                                     | a rate, bps   | 57600   |
|                 |                                                     | J header, bit | 0       |
| MAC             | MAC hea                                             | ader, bit     | 0       |
|                 | MAC mu                                              | ıltiplexing   | N/A     |
| Layer 1         | TrCH type                                           |               | DCH     |
|                 | TB sizes, bit                                       |               | 576     |
|                 | TFS                                                 | TF0, bits     | 0x576   |
|                 |                                                     | TF1, bits     | 1x576   |
|                 |                                                     | TF2, bits     | 2x576   |
|                 |                                                     | TF3, bits     | 3x576   |
|                 |                                                     | TF4, bits     | 4x576   |
|                 | TTI, ms                                             |               | 40      |
|                 | Coding type                                         |               | TC      |
|                 | CRC, bit                                            |               | 16      |
|                 | Max number of bits/TTI after channel coding         |               | 7116    |
|                 | Max number of bits/radio frame before rate matching |               | 1779    |
|                 | RM attribute                                        |               | 125-165 |

#### 6.10.3.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.17.1.1.3 TFCS

| TFCS size                                                                                                                | 10                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| TFCS                                                                                                                     | (57.6 kbps RAB, DCCH)=                                      |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                             |  |

#### 6.10.3.4.1.17.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.44                       |

6.10.3.4.1.17.2 Downlink

6.10.3.4.1.17.2.1 Transport channel parameters

# 6.10.3.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

| Higher<br>Layer | RAB/Signa                                   | lling RB   | RAB     |
|-----------------|---------------------------------------------|------------|---------|
| RLC             | Logical channel type                        |            | DTCH    |
|                 | RLC mode                                    |            | TM      |
|                 | Payload siz                                 | zes, bit   | 576     |
|                 | Max data ra                                 | ate, bps   | 57600   |
|                 | TrD PDU h                                   | eader, bit | 0       |
| MAC             | MAC heade                                   | er, bit    | 0       |
|                 | MAC multip                                  | plexing    | N/A     |
| Layer 1         | TrCH type                                   |            | DCH     |
|                 | TB sizes, bit                               |            | 576     |
|                 | TFS                                         | TF0, bits  | 0x576   |
|                 |                                             | TF1, bits  | 1x576   |
|                 |                                             | TF2, bits  | 2x576   |
|                 |                                             | TF3, bits  | 3x576   |
|                 |                                             | TF4, bits  | 4x576   |
|                 | TTI, ms                                     |            | 40      |
|                 | Coding type                                 |            | TC      |
|                 | CRC, bit                                    |            | 16      |
|                 | Max number of bits/TTI after channel coding |            | 7116    |
|                 | Max number of bits/radio frame before rate  |            | 1779    |
|                 | matching                                    |            |         |
|                 | RM attribut                                 | e          | 125-165 |

# 6.10.3.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.17.2.1.3 TFCS

| TFCS size                                                                                                                | 10                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| TFCS                                                                                                                     | (57.6 kbps RAB, DCCH)=                                      |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                             |  |

# 6.10.3.4.1.17.2.2 Physical channel parameters

|               | DPCH Downlink    | Midamble                             | 512 chips                          |     |
|---------------|------------------|--------------------------------------|------------------------------------|-----|
|               |                  | Codes and time slots                 | SF16 x 4 codes x 1 time slot       |     |
|               |                  | Max. Number of data bits/radio frame | 960 bits                           |     |
|               |                  | TFCI code word                       | 16 bits                            |     |
|               |                  | Puncturing limit                     | 0.48                               |     |
| 6.10.3.4.1.18 | Void             |                                      |                                    |     |
| 6.10.3.4.1.19 | Void             |                                      |                                    |     |
| 6.10.3.4.1.20 | Void             |                                      |                                    |     |
| 6.10.3.4.1.21 | Void             |                                      |                                    |     |
| 6.10.3.4.1.22 | Void             |                                      |                                    |     |
|               |                  |                                      |                                    |     |
| 6.10.3.4.1.23 | Interact<br>DCCH | ive or background / UL:32 DL:8 kbps  | / PS RAB + UL:3.4 DL:3.4 kbps SRBs | for |

Uplink 6.10.3.4.1.23.1

Transport channel parameters

6.10.3.4.1.23.1.1

6.10.3.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| Higher<br>Layer | RAB/Sig                                     | nalling RB    | RAB                |
|-----------------|---------------------------------------------|---------------|--------------------|
| RLC             | Logical channel type                        |               | DTCH               |
|                 | RLC mo                                      |               | AM                 |
|                 | Payload                                     | sizes, bit    | 320 (alt. 128)     |
|                 | Max data                                    | a rate, bps   | 32000              |
|                 | AMD PD                                      | U header, bit | 16                 |
| MAC             | MAC header, bit                             |               | 0                  |
|                 | MAC multiplexing                            |               | N/A                |
| Layer 1         | TrCH type                                   |               | DCH                |
|                 | TB sizes, bit                               |               | 336 (alt.144)      |
|                 | TFS                                         | TF0, bits     | 0x336 (alt. 0x144) |
|                 |                                             | TF1, bits     | 1x336 (alt. 1x144) |
|                 |                                             | TF2, bits     | 2x336 (alt. 5x144) |
|                 | TTI, ms                                     |               | 20)                |
|                 | Coding type                                 |               | TC                 |
|                 | CRC, bit                                    |               | 16                 |
|                 | Max number of bits/TTI after channel coding |               | 2124 (alt. 2412)   |
|                 | Max number of bits/radio frame before rate  |               | 1062 (alt. 1206)   |
|                 | matching                                    |               |                    |
| i               | RM attribute                                |               | 135-175            |

6.10.3.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.23.1.1.3 TFCS

| TFCS size                                                                                                                | 6                                                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                |  |

#### 6.10.3.4.1.23.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

6.10.3.4.1.23.2 Downlink

6.10.3.4.1.23.2.1 Transport channel parameters

# 6.10.3.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

| Higher<br>Layer | RAB/Sig                                     | nalling RB     | RAB     |
|-----------------|---------------------------------------------|----------------|---------|
| RLC             | Logical                                     | channel type   | DTCH    |
|                 | RLC mo                                      | de             | AM      |
|                 | Payload                                     | sizes, bit     | 320     |
|                 | Max data                                    | a rate, bps    | 8000    |
|                 | AMD PD                                      | OU header, bit | 16      |
| MAC             | MAC header, bit                             |                | 0       |
|                 | MAC multiplexing                            |                | N/A     |
| Layer 1         | TrCH type                                   |                | DCH     |
|                 | TB sizes, bit                               |                | 336     |
|                 | TFS                                         | TF0, bits      | 0x336   |
|                 |                                             | TF1, bits      | 1x336   |
|                 | TTI, ms                                     |                | 40      |
|                 | Coding type                                 |                | TC      |
|                 | CRC, bit                                    |                | 16      |
|                 | Max number of bits/TTI after channel coding |                | 1068    |
|                 | Max number of bits/radio frame before rate  |                | 267     |
|                 | matching                                    | g              |         |
|                 | RM attrib                                   | oute           | 135-175 |

# 6.10.3.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.23.2.1.3 TFCS

| TFCS size          | 4                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                      |
| Note: In case TB s | ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.23.2.2 Physical channel parameters

| DPCH Downlink                                                                           | Midamble                             | 512 chips                   |  |
|-----------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|--|
|                                                                                         | Codes and time slots                 | SF16 x 1 code x 1 time slot |  |
|                                                                                         | Max. Number of data bits/radio frame | 228 bits                    |  |
|                                                                                         | TFCI code word                       | 16 bits                     |  |
|                                                                                         | Puncturing limit                     | 0.56                        |  |
| Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 |                                      |                             |  |
| bits.                                                                                   | _                                    |                             |  |

6.10.3.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.23a.1 Uplink

6.10.3.4.1.23a.1.1 Transport channel parameters

#### 6.10.3.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

| Higher<br>Layer | RAB/Sig          | nalling RB                           | RAB                |
|-----------------|------------------|--------------------------------------|--------------------|
| RLC             | Logical c        | hannel type                          | DTCH               |
|                 | RLC mod          | de                                   | AM                 |
|                 | Payload          | sizes, bit                           | 320 (alt. 128)     |
|                 | Max data         | rate, bps                            | 8000               |
|                 | AMD PD           | U header, bit                        | 16                 |
| MAC             | MAC hea          | ader, bit                            | 0                  |
|                 | MAC multiplexing |                                      | N/A                |
| Layer 1         | TrCH type        |                                      | DCH                |
|                 | TB sizes         | , bit                                | 336 (alt. 144)     |
|                 | TFS              | TF0, bits                            | 0x336 (alt. 0x144) |
|                 |                  | TF1, bits                            | 1x336 (alt. 1x144) |
|                 |                  | TF2, bits                            | N/A (alt. 5x144)   |
|                 | TTI, ms          |                                      | 40 (alt. 80)       |
|                 | Coding to        | уре                                  | TC                 |
|                 | CRC, bit         |                                      | 16                 |
|                 | Max num          | ber of bits/TTI after channel coding | 1068 (alt. 2412)   |
|                 |                  | ber of bits/radio frame before rate  | 267 (alt.302)      |
|                 | matching         |                                      |                    |
|                 | RM attrib        | oute                                 | 135-175            |

# 6.10.3.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.23a.1.1.3 TFCS

| TFCS size                                                                                                               | 4 (alt. 6)                                                                    |  |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|
| TFCS                                                                                                                    | (8 kbps RAB, DCCH)=                                                           |  |
|                                                                                                                         | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                |  |
|                                                                                                                         | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)) |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                               |  |

# 6.10.3.4.1.23a.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                   |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.56 (alt. 0.48)            |

6.10.3.4.1.23a.2 Downlink

See clause 6.10.3.4.1.23.2

6.10.3.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.23b.1 Uplink

6.10.3.4.1.23b.1.1 Transport channel parameters

#### 6.10.3.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

| Higher layer | RAB/Signalling RB                           | RAB                |
|--------------|---------------------------------------------|--------------------|
| RLC          | Logical channel type                        | DTCH               |
|              | RLC mode                                    | AM                 |
|              | Payload sizes, bit                          | 320 (alt. 128)     |
|              | Max data rate, bps                          | 16000              |
|              | AMD PDU header, bit                         | 16                 |
| MAC          | MAC header, bit                             | 0                  |
|              | MAC multiplexing                            | N/A                |
| Layer 1      | TrCH type                                   | DCH                |
|              | TB sizes, bit                               | 336 (alt. 144)     |
|              | TFS TF0, bits                               | 0x336 (alt. 0x144) |
|              | TF1, bits                                   | 1x336 (alt. 1x144) |
|              | TF2, bits                                   | 2x336 (alt. 5x144) |
|              | TTI, ms                                     | 40                 |
|              | Coding type                                 | TC                 |
|              | CRC, bit                                    | 16                 |
|              | Max number of bits/TTI after channel coding | 2124 (alt. 2412)   |
|              | Max number of bits/radio frame before rate  | 531 (alt. 603)     |
|              | matching                                    |                    |
|              | RM attribute                                | 135-175            |

6.10.3.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

### 6.10.3.4.1.23b.1.1.3 TFCS

| TFCS size           | 6                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------|
| TFCS                | (16 kbps RAB, DCCH)=                                                                                 |
|                     | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)                               |
| Note: In case TB si | ze zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.23b.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68 (alt. 0.60)           |

6.10.3.4.1.23b.2 Downlink

6.10.3.4.1.23b.2.1 Transport channel parameters

# 6.10.3.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                   | RAB     |
|-----------------|-----------------------------------------------------|---------|
| RLC             | Logical channel type                                | DTCH    |
|                 | RLC mode                                            | AM      |
|                 | Payload sizes, bit                                  | 320     |
|                 | Max data rate, bps                                  | 16000   |
|                 | AMD PDU header, bit                                 | 16      |
| MAC             | MAC header, bit                                     | 0       |
|                 | MAC multiplexing                                    | N/A     |
| Layer 1         | TrCH type                                           | DCH     |
|                 | TB sizes, bit                                       | 336     |
|                 | TFS TF0, bits                                       | 0x336   |
|                 | TF1, bits                                           | 1x336   |
|                 | TF2, bits                                           | 2x336   |
|                 | TTI, ms                                             | 40      |
|                 | Coding type                                         | TC      |
|                 | CRC, bit                                            | 16      |
|                 | Max number of bits/TTI after channel coding         | 2124    |
|                 | Max number of bits/radio frame before rate matching | 531     |
|                 | RM attribute                                        | 135-175 |

# 6.10.3.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.23b.2.1.3 TFCS

| TFCS size           | 6                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------|
| TFCS                | (16 kbps RAB, DCCH)=                                                                                 |
|                     | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)                               |
| Note: In case TB si | ze zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.2.4.1.23b.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.23c.1 Uplink

6.10.3.4.1.23c.1.1 Transport channel parameters

6.10.3.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| Higher<br>layer | RAB/Sig                                             | nalling RB                            | RAB                 |
|-----------------|-----------------------------------------------------|---------------------------------------|---------------------|
| RLC             | Logical                                             | channel type                          | DTCH                |
|                 | RLC mo                                              | de                                    | AM                  |
|                 | Payload                                             | sizes, bit                            | 320 (alt. 128)      |
|                 | Max data                                            | a rate, bps                           | 32000               |
|                 | AMD PD                                              | U header, bit                         | 16                  |
| MAC             | MAC hea                                             | ader, bit                             | 0                   |
|                 | MAC mu                                              | ıltiplexing                           | N/A                 |
| Layer 1         | TrCH type                                           |                                       | DCH                 |
|                 | TB sizes, bit                                       |                                       | 336 (alt. 144)      |
|                 | TFS                                                 | TF0, bits                             | 0x336 (alt. 0x144)  |
|                 |                                                     | TF1, bits                             | 1x336 (alt. 1x144)  |
|                 |                                                     | TF2, bits                             | 2x336 (alt. 5x144)  |
|                 |                                                     | TF3, bits                             | 3x336 (alt. 7x144)  |
|                 |                                                     | TF4, bits                             | 4x336 (alt. 10x144) |
|                 | TTI, ms                                             |                                       | 40                  |
|                 | Coding type                                         |                                       | TC                  |
|                 | CRC, bit                                            |                                       | 16                  |
|                 | Max nun                                             | nber of bits/TTI after channel coding | 4236 (alt. 4812)    |
|                 | Max number of bits/radio frame before rate matching |                                       | 1059 (alt. 1203)    |
|                 | RM attribute                                        |                                       | 135-175             |

# 6.10.3.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.23c.1.1.3 TFCS

| TFCS size                                                                                                               | 10                                                                                      |  |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--|
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=                                                                    |  |
|                                                                                                                         | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), |  |
|                                                                                                                         | (TF3,TF1), (TF4,TF1)                                                                    |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                         |  |

#### 6.10.3.4.1.23c.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

6.10.3.4.1.23c.2 Downlink

6.10.3.4.1.23c.2.1 Transport channel parameters

6.10.3.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                          |                                     | RAB     |
|-----------------|--------------------------------------------|-------------------------------------|---------|
| RLC             | Logical cha                                | annel type                          | DTCH    |
|                 | RLC mode                                   |                                     | AM      |
|                 | Payload si                                 | zes, bit                            | 320     |
|                 | Max data r                                 | rate, bps                           | 32000   |
|                 | AMD PDU                                    | header, bit                         | 16      |
| MAC             | MAC head                                   | ler, bit                            | 0       |
|                 | MAC multiplexing                           |                                     | N/A     |
| Layer 1         | TrCH type                                  |                                     | DCH     |
|                 | TB sizes, b                                | oit                                 | 336     |
|                 | TFS                                        | TF0, bits                           | 0x336   |
|                 |                                            | TF1, bits                           | 1x336   |
|                 |                                            | TF2, bits                           | 2x336   |
|                 |                                            | TF3, bits                           | 3x336   |
|                 |                                            | TF4, bits                           | 4x336   |
|                 | TTI, ms                                    |                                     | 40      |
|                 | Coding type                                |                                     | TC      |
|                 | CRC, bit                                   |                                     | 16      |
|                 | Max numb                                   | er of bits/TTI after channel coding | 4236    |
|                 | Max number of bits/radio frame before rate |                                     | 1059    |
|                 | matching                                   |                                     |         |
|                 | RM attribu                                 | te                                  | 135-175 |

# 6.10.3.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.23c.2.1.3 TFCS

| TFCS size        | 10                                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------|
| TFCS             | (32 kbps RAB, DCCH)=                                                                                     |
|                  | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),                  |
|                  | (TF3,TF1), (TF4,TF1)                                                                                     |
| Note: In case TE | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.23c.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 716                          |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.10.3.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4

kbps SRBs for DCCH

6.10.3.4.1.23d.1 Uplink

6.10.3.4.1.23d.1.1 Transport channel parameters

# 6.10.3.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB |                                       | RAB                |  |
|-----------------|-------------------|---------------------------------------|--------------------|--|
| RLC             | Logical of        | channel type                          | DTCH               |  |
|                 | RLC mo            | de                                    | AM                 |  |
|                 | Payload           | sizes, bit                            | 320 (alt. 128)     |  |
|                 | Max data          | a rate, bps                           | 32000              |  |
|                 | AMD PD            | U header, bit                         | 16                 |  |
| MAC             | MAC hea           | ader, bit                             | 0                  |  |
|                 | MAC multiplexing  |                                       | N/A                |  |
| Layer 1         | TrCH type         |                                       | DCH                |  |
|                 | TB sizes          | , bit                                 | 336 (alt. 144)     |  |
|                 | TFS               | TF0, bits                             | 0x336 (alt. 0x144) |  |
|                 |                   | TF1, bits                             | 1x336 (alt 1x144)  |  |
|                 |                   | TF2, bits                             | 2x336 (alt. 5x144) |  |
|                 | TTI, ms           |                                       | 20                 |  |
|                 | Coding t          | ype                                   | TC                 |  |
|                 | CRC, bit          |                                       | 16                 |  |
|                 | Max nun           | nber of bits/TTI after channel coding | 2124 (alt. 2412)   |  |
|                 | Max nun matching  | nber of bits/radio frame before rate  | 1062 (alt. 1206)   |  |
|                 | RM attrib         | oute                                  | 135-175            |  |

# 6.10.3.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.23d.1.1.3 TFCS

| TFCS size          | 6                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (32 kbps RAB, DCCH)=                                                                                  |
|                    | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)                                      |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.23d.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |  |
|-------------|--------------------------------------|----------------------------|--|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |  |
|             | Max. Number of data bits/radio frame | 904 bits                   |  |
|             | TFCI code word                       | 16 bits                    |  |
|             | TPC                                  | 2 bits                     |  |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |  |

6.10.3.4.1.23d.2 Downlink

6.10.3.4.1.23d.2.1 Transport channel parameters

# 6.10.3.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                   | RAB     |  |
|-----------------|-----------------------------------------------------|---------|--|
| RLC             | Logical channel type                                | DTCH    |  |
|                 | RLC mode                                            | AM      |  |
|                 | Payload sizes, bit                                  | 320     |  |
|                 | Max data rate, bps                                  | 32000   |  |
|                 | AMD PDU header, bit                                 | 16      |  |
| MAC             | MAC header, bit                                     | 0       |  |
|                 | MAC multiplexing                                    | N/A     |  |
| Layer 1         | TrCH type                                           | DCH     |  |
|                 | TB sizes, bit                                       | 336     |  |
|                 | TFS TF0, bits                                       | 0x336   |  |
|                 | TF1, bits                                           | 1x336   |  |
|                 | TF2, bits                                           | 2x336   |  |
|                 | TTI, ms                                             | 20      |  |
|                 | Coding type                                         | TC      |  |
|                 | CRC, bit                                            | 16      |  |
|                 | Max number of bits/TTI after channel coding         | 2124    |  |
|                 | Max number of bits/radio frame before rate matching | 1062    |  |
|                 | RM attribute                                        | 135-175 |  |

#### 6.10.3.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

### 6.10.3.4.1.23d.2.1.3 TFCS

| TFCS size           | 6                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                | (32 kbps RAB, DCCH)=                                                                                  |
|                     | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)                                      |
| Note: In case TB si | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.23d.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 716 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.24 Void

6.10.3.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.25.1 Uplink

See clause 6.10.3.4.1.23.1.

6.10.3.4.1.25.2 Downlink

6.10.3.4.1.25.2.1 Transport channel parameters

# 6.10.3.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                           | RAB     |  |
|-----------------|---------------------------------------------|---------|--|
| RLC             | Logical channel type                        | DTCH    |  |
|                 | RLC mode                                    | AM      |  |
|                 | Payload sizes, bit                          | 320     |  |
|                 | Max data rate, bps                          | 64000   |  |
|                 | AMD PDU header, bit                         | 16      |  |
| MAC             | MAC header, bit                             | 0       |  |
|                 | MAC multiplexing                            | N/A     |  |
| Layer 1         | TrCH type                                   | DCH     |  |
|                 | TB sizes, bit                               | 336     |  |
|                 | TFS TF0, bits                               | 0x336   |  |
|                 | TF1, bits                                   | 1x336   |  |
|                 | TF2, bits                                   | 2x336   |  |
|                 | TF3, bits                                   | 3x336   |  |
|                 | TF4, bits                                   | 4x336   |  |
|                 | TTI, ms                                     | 20      |  |
|                 | Coding type                                 | TC      |  |
|                 | CRC, bit                                    | 16      |  |
|                 | Max number of bits/TTI after channel coding | 4236    |  |
|                 | Max number of bits/radio frame before rate  | 2118    |  |
|                 | matching                                    |         |  |
|                 | RM attribute                                | 130-170 |  |

# 6.10.3.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.25.2.1.3 TFCS

| TFCS size       | 10                                                                                                        |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| TFCS            | (64 kbps RAB, DCCH)=                                                                                      |
|                 | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),                                               |
|                 | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)                                                |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.25.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1     | Physical Configuration 2     |
|---------------|--------------------------------------|------------------------------|------------------------------|
|               | Midamble                             | 512 chips                    | 512 chips                    |
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot | SF16 x 9 codes x 1 time slot |
|               |                                      | + SF16 x 2 codes x 1 time    |                              |
|               |                                      | slot                         |                              |
|               | Max. Number of data bits/radio frame | 1204 bits                    | 2180 bits                    |
|               | TFCI code word                       | 16 bits                      | 16 bits                      |
|               | Puncturing limit                     | 0.52                         | 0.96                         |

6.10.3.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.26.1 Uplink

6.10.3.4.1.26.1.1 Transport channel parameters

#### 6.10.3.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Sign                                            | alling RB     | RAB                 |  |
|-----------------|-----------------------------------------------------|---------------|---------------------|--|
| RLC             | Logical ch                                          | nannel type   | DTCH                |  |
|                 | RLC mod                                             | e             | AM                  |  |
|                 | Payload s                                           | sizes, bit    | 320 (alt.128)       |  |
|                 | Max data                                            | rate, bps     | 64000               |  |
|                 | AMD PDU                                             | J header, bit | 16                  |  |
| MAC             | MAC head                                            | der, bit      | 0                   |  |
|                 | MAC multiplexing                                    |               | N/A                 |  |
| Layer 1         | TrCH type                                           |               | DCH                 |  |
|                 | TB sizes, bit                                       |               | 336 (alt. 144)      |  |
|                 | TFS                                                 | TF0, bits     | 0x336 (alt. 0x144)  |  |
|                 |                                                     | TF1, bits     | 1x336 (alt. 1x144)  |  |
|                 |                                                     | TF2, bits     | 2x336 (alt. 3x144)  |  |
|                 |                                                     | TF3, bits     | 3x336 (alt. 7x144)  |  |
|                 |                                                     | TF4, bits     | 4x336 (alt. 10x144) |  |
|                 | TTI, ms                                             |               | 20                  |  |
|                 | Coding type                                         |               | TC                  |  |
|                 | CRC, bit                                            |               | 16                  |  |
|                 | Max number of bits/TTI after channel coding         |               | 4236 (alt. 4812)    |  |
|                 | Max number of bits/radio frame before rate matching |               | 2118 (alt. 2406)    |  |
|                 | RM attribute                                        |               | 130-170             |  |

# 6.10.3.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.26.1.1.3 TFCS

| TFCS size | 10                                                          |
|-----------|-------------------------------------------------------------|
| TFCS      | (64 kbps RAB, DCCH)=                                        |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |

# 6.10.3.4.1.26.1.2 Physical channel parameters

| DPCH Uplink |                                      | Physical Configuration 1      | Physical Configuration 2         |
|-------------|--------------------------------------|-------------------------------|----------------------------------|
|             | Midamble                             | 512 chips                     | 512 chips                        |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot + | SF2 x 1 code x 1 time slot + SF4 |
|             |                                      | SF4 x 1 code x 1 time slot    | x 1 code x 1 time slot           |
|             | Max. Number of data bits/radio frame | 1148 bits                     | 2784 bits                        |
|             | TFCI code word                       | 16 bits                       | 16 bits                          |
|             | TPC                                  | 2 bits                        | 2 bits                           |
|             | Puncturing Limit                     | 0.48 (alt. 0.44)              | 1                                |

6.10.3.4.1.26.2 Downlink

See clause 6.10.3.4.1.25.2.

6.10.3.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.27.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.27.2 Downlink

6.10.3.4.1.27.2.1 Transport channel parameters

6.10.3.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

| Higher<br>Layer | RAB/Sig                                     | nalling RB     | RAB     |
|-----------------|---------------------------------------------|----------------|---------|
| RLC             | Logical channel type                        |                | DTCH    |
|                 | RLC mo                                      | de             | AM      |
|                 | Payload                                     | sizes, bit     | 320     |
|                 | Max data                                    | a rate, bps    | 128000  |
|                 | AMD PD                                      | OU header, bit | 16      |
| MAC             | MAC hea                                     | ader, bit      | 0       |
|                 | MAC mu                                      | ıltiplexing    | N/A     |
| Layer 1         | TrCH type                                   |                | DCH     |
|                 | TB sizes, bit                               |                | 336     |
|                 | TFS                                         | TF0, bits      | 0x336   |
|                 |                                             | TF1, bits      | 1x336   |
|                 |                                             | TF2, bits      | 2x336   |
|                 |                                             | TF3, bits      | 4 x336  |
|                 |                                             | TF4, bits      | 8 x336  |
|                 | TTI, ms                                     |                | 20      |
|                 | Coding type                                 |                | TC      |
|                 | CRC, bit                                    |                | 16      |
|                 | Max number of bits/TTI after channel coding |                | 8460    |
|                 | Max number of bits/radio frame before rate  |                | 4230    |
| Ì               | matching                                    | 9              |         |
|                 | RM attribute                                |                | 120-160 |

6.10.3.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.27.2.1.3 TFCS

| TFCS size                                                                                                                | 10                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| TFCS                                                                                                                     | (128 kbps RAB, DCCH)=                                       |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)  |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                             |  |

# 6.10.3.4.1.27.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1     | Physical Configuration 2      |
|---------------|--------------------------------------|------------------------------|-------------------------------|
|               | Midamble                             | 256 chips                    | 256 chips                     |
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot | SF16 x 4 codes x 2 time slots |
|               |                                      |                              | + SF16 x 3 codes x 2 time     |
|               |                                      |                              | slots                         |
|               | Max. Number of data bits/radio frame | 2192 bits                    | 3848 bits                     |
|               | TFCI code word                       | 16 bits                      | 16 bits                       |
|               | Puncturing limit                     | 0.48                         | 0.84                          |

6.10.3.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.3.4.1.28.1 Uplink

6.10.3.4.1.28.1.1 Transport channel parameters

# 6.10.3.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

| Higher<br>Layer | RAB/Sig                                     | nalling RB    | RAB                  |
|-----------------|---------------------------------------------|---------------|----------------------|
| RLC             | Logical channel type                        |               | DTCH                 |
|                 | RLC mo                                      | de            | AM                   |
|                 | Payload                                     | sizes, bit    | 320 (alt. 128)       |
|                 | Max data                                    | a rate, bps   | 128000               |
|                 | AMD PD                                      | U header, bit | 16                   |
| MAC             | MAC hea                                     | ader, bit     | 0                    |
|                 | MAC multiplexing                            |               | N/A                  |
| Layer 1         | TrCH type                                   |               | DCH                  |
|                 | TB sizes, bit                               |               | 336 (alt. 144)       |
|                 | TFS                                         | TF0, bits     | 0x336 (alt. 0x144)   |
|                 |                                             | TF1, bits     | 1x336 (alt. 1x144)   |
|                 |                                             | TF2, bits     | 2x336 (alt. 7x144)   |
|                 |                                             | TF3, bits     | 4 x336 (alt 14x144)  |
|                 |                                             | TF4, bits     | 8 x336 (alt. 20x144) |
|                 | TTI, ms                                     |               | 20                   |
|                 | Coding type                                 |               | TC                   |
|                 | CRC, bit                                    |               | 16                   |
|                 | Max number of bits/TTI after channel coding |               | 8460 ( alt. 9612)    |
|                 | Max number of bits/radio frame before rate  |               | 4230 (alt. 4806)     |
|                 | matching                                    |               | ·                    |
|                 | RM attribute                                |               | 120-160              |

# 6.10.3.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.28.1.1.3 TFCS

| TFCS size                                                                                                                | 9 (alt.10)                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (128 kbps RAB, DCCH)=                                             |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),       |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1)                    |  |
|                                                                                                                          | (alt, (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1))       |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                   |  |

# 6.10.3.4.1.28.1.2 Physical channel parameters

| DPCH Uplink |                                      | Physical Configuration 1  | Physical Configuration 2         |
|-------------|--------------------------------------|---------------------------|----------------------------------|
|             | Midamble                             | 256 chips                 | 256 chips                        |
|             | Codes and time slots                 | SF2 x 1 code x 1 timeslot | SF2 x 1 code x 2 timeslots + SF4 |
|             |                                      |                           | x 1 code x 1 time slot           |
|             | Max. Number of data bits/radio frame | 2064 bits                 | 5376 bits                        |
|             | TFCI code word                       | 16 bits                   | 16 bits                          |
|             | TPC                                  | 2 bits                    | 2 bits                           |
|             | Puncturing Limit                     | 0.44 (alt. 0.40)          | 1                                |

6.10.3.4.1.28.2 Downlink

See clause 6.10.3.4.1.27.2.

6.10.3.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.3.4.1.29.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.29.2 Downlink

6.10.3.4.1.29.2.1 Transport channel parameters

# 6.10.3.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

| Higher<br>Layer | RAB/Signa                                           | alling RB   | RAB     |  |
|-----------------|-----------------------------------------------------|-------------|---------|--|
| RLC             | Logical channel type                                |             | DTCH    |  |
|                 | RLC mode                                            |             | AM      |  |
|                 | Payload siz                                         | zes, bit    | 320     |  |
|                 | Max data r                                          | ate, bps    | 144000  |  |
|                 | AMD PDU                                             | header, bit | 16      |  |
| MAC             | MAC header, bit                                     |             | 0       |  |
|                 | MAC multip                                          | plexing     | N/A     |  |
| Layer 1         | TrCH type                                           |             | DCH     |  |
| -               | TB sizes, bit                                       |             | 336     |  |
|                 | TFS                                                 | TF0, bits   | 0x336   |  |
|                 |                                                     | TF1, bits   | 1x336   |  |
|                 |                                                     | TF2, bits   | 2x336   |  |
|                 |                                                     | TF3, bits   | 4 x336  |  |
|                 |                                                     | TF4, bits   | 8 x336  |  |
|                 |                                                     | TF5, bits   | 9x336   |  |
|                 | TTI, ms                                             |             | 20      |  |
|                 | Coding type                                         |             | TC      |  |
|                 | CRC, bit                                            |             | 16      |  |
|                 | Max number of bits/TTI after channel coding         |             | 9516    |  |
|                 | Max number of bits/radio frame before rate matching |             | 4758    |  |
|                 | RM attribute                                        |             | 140-180 |  |

6.10.3.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.29.2.1.3 TFCS

| TFCS size                                                                                                                | 12                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (144 kbps RAB, DCCH)=                                                  |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                        |  |

#### 6.10.3.4.1.29.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 9 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2468 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

6.10.3.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.30.1 Uplink

6.10.3.4.1.30.1.1 Transport channel parameters

# 6.10.3.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB                  |
|-----------------|-----------------------------------------------------|----------------------|
| RLC             | Logical channel type                                | DTCH                 |
|                 | RLC mode                                            | AM                   |
|                 | Payload sizes, bit                                  | 320 (alt. 128)       |
|                 | Max data rate, bps                                  | 144000               |
|                 | AMD PDU header, bit                                 | 16                   |
| MAC             | MAC header, bit                                     | 0                    |
|                 | MAC multiplexing                                    | N/A                  |
| Layer 1         | TrCH type                                           | DCH                  |
|                 | TB sizes, bit                                       | 336 (alt. 144)       |
|                 | TFS TF0, bits                                       | 0x336 (alt. 0x144)   |
|                 | TF1, bits                                           | 1x336 (alt. 1x144)   |
|                 | TF2, bits                                           | 2x336 (alt. 10x144)  |
|                 | TF3, bits                                           | 4 x336 (alt. 20x144) |
|                 | TF4, bits                                           | 8 x336 (alt. 30x144) |
|                 | TF5, bits                                           | 9 x336 (alt. 45x144) |
|                 | TTI, ms                                             | 20 (alt. 40)         |
|                 | Coding type                                         | TC                   |
|                 | CRC, bit                                            | 16                   |
|                 | Max number of bits/TTI after channel coding         | 9516 (alt. 21624)    |
|                 | Max number of bits/radio frame before rate matching | 4758 (alt. 5406)     |
|                 | RM attribute                                        | 140-180              |

6.10.3.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.30.1.1.3 TFCS

| TFCS size                                                                                                                | 12                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (144 kbps RAB, DCCH)=                                                  |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                        |  |

#### 6.10.3.4.1.30.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                                   |
|-------------|--------------------------------------|---------------------------------------------|
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot + SF2 x 1 codex |
|             |                                      | 1 time slot                                 |
|             | Max. Number of data bits/radio frame | 2340 bits                                   |
|             | TFCI code word                       | 16 bits                                     |
|             | TPC                                  | 2 bits                                      |
|             | Puncturing Limit                     | 0.44(alt. 0.40)                             |

6.10.3.4.1.30.2 Downlink

See clause 6.10.3.4.1.29.2.

6.10.3.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.31.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.31.2 Downlink

6.10.3.4.1.31.2.1 Transport channel parameters

# 6.10.3.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB               |
|-----------------|-----------------------------------------------------|-------------------|
| RLC             | Logical channel type                                | DTCH              |
|                 | RLC mode                                            | AM                |
|                 | Payload sizes, bit                                  | 320               |
|                 | Max data rate, bps                                  | 384000            |
|                 | AMD PDU header, bit                                 | 16                |
| MAC             | MAC header, bit                                     | 0                 |
|                 | MAC multiplexing                                    | N/A               |
| Layer 1         | TrCH type                                           | DCH               |
|                 | TB sizes, bit                                       | 336               |
|                 | TFS TF0, bits                                       | 0x336             |
|                 | TF1, bits                                           | 1x336             |
|                 | TF2, bits                                           | 2x336             |
|                 | TF3, bits                                           | 4 x336            |
|                 | TF4, bits                                           | 8 x336            |
|                 | TF5, bits                                           | N/A (alt. 12x336) |
|                 | TF6, bits                                           | N/A (alt. 16x336) |
|                 | TTI, ms                                             | 10(alt. 20)       |
|                 | Coding type                                         | TC                |
|                 | CRC, bit                                            | 16                |
|                 | Max number of bits/TTI after channel coding         | 8460(alt. 16920)  |
|                 | Max number of bits/radio frame before rate matching | 8460 (alt. 8460)  |

| Higher<br>Layer | RAB/Signalling RB | RAB     |
|-----------------|-------------------|---------|
|                 | RM attribute      | 135-175 |

Transport channel parameters for DL:3.4 kbps SRBs for DCCH 6.10.3.4.1.31.2.1.2

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.31.2.1.3 **TFCS**

| TFCS size                                                                                                                | 10 (alt.14)                                                                              |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (256 kbps RAB, DCCH)=                                                                    |  |
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),                              |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)                               |  |
|                                                                                                                          | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0) |  |
|                                                                                                                          | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))      |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                          |  |

#### 6.10.3.4.1.31.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                     |
|---------------|--------------------------------------|-------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 4400 bits                     |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0.48                          |

6.10.3.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

Uplink 6.10.3.4.1.32.1

See 6.10.3.4.1.26.1

6.10.3.4.1.32.2 Downlink

6.10.3.4.1.32.2.1 Transport channel parameters

#### 6.10.3.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB    | RAB    |
|-----------------|----------------------|--------|
| RLC             | Logical channel type | DTCH   |
|                 | RLC mode             | AM     |
|                 | Payload sizes, bit   | 320    |
|                 | Max data rate, bps   | 384000 |
|                 | AMD PDU header, bit  | 16     |
| MAC             | MAC header, bit      | 0      |
|                 | MAC multiplexing     | N/A    |

| Higher<br>Layer | RAB/Signalling RB                                   | RAB                |
|-----------------|-----------------------------------------------------|--------------------|
| Layer 1         | TrCH type                                           | DCH                |
|                 | TB sizes, bit                                       | 336                |
|                 | TFS TF0, bits                                       | 0x336              |
|                 | TF1, bits                                           | 1x336              |
|                 | TF2, bits                                           | 2x336              |
|                 | TF3, bits                                           | 4 x336             |
|                 | TF4, bits                                           | 8 x336             |
|                 | TF5, bits                                           | 12x336             |
|                 | TF6, bits                                           | N/A (alt. 16 x336) |
|                 | TF7, bits                                           | N/A (alt. 20 x336) |
|                 | TF8, bits                                           | N/A (alt. 24 x336) |
|                 | TTI, ms                                             | 10(alt. 20)        |
|                 | Coding type                                         | TC                 |
|                 | CRC, bit                                            | 16                 |
|                 | Max number of bits/TTI after channel coding         | 12684(alt. 25368)  |
|                 | Max number of bits/radio frame before rate matching | 12684 (alt. 12684) |
|                 | RM attribute                                        | 110-150            |

# 6.10.3.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.32.2.1.3 TFCS

| TFCS size       | 12 (alt.18)                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| TFCS            | (384 kbps RAB, DCCH)=                                                                                     |
|                 | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)                                    |
|                 | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)                                    |
|                 | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,           |
|                 | TF0), (TF8, TF0),                                                                                         |
|                 | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),           |
|                 | (TF8, TF1))                                                                                               |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.32.2.2 Physical channel parameters

| DPCH Downlink |                      | Physical Configuration 1 | Physical Configuration 2        |
|---------------|----------------------|--------------------------|---------------------------------|
|               | Midamble             | 256 chips                | 256 chips                       |
|               | Codes and time slots | SF16 x 8 codes x 3 time  | SF16 x 6 codes x 4 time slots + |
|               |                      | slots                    | SF16 x 4 codes x 1 time slot    |
|               |                      |                          | (alt. SF1 x 1 code x 3 time     |
|               |                      |                          | slots)                          |
|               | Max. Number of data  | 6608 bits                | 7712 bits (alt. 13232 bits)     |
|               | bits/radio frame     |                          |                                 |
|               | TFCI code word       | 16 bits                  | 16 bits                         |
|               | Puncturing Limit     | 0.48                     | 0.60 (alt. 1)                   |

# 6.10.3.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.33.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.33.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.34.1 Uplink

6.10.3.4.1.34.1.1 Transport channel parameters

6.10.3.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher  | RAB/Signalling RB                           | RAB                 |
|---------|---------------------------------------------|---------------------|
| Layer   |                                             |                     |
| RLC     | Logical channel type                        | DTCH                |
|         | RLC mode                                    | AM                  |
|         | Payload sizes, bit                          | 320                 |
|         | Max data rate, bps                          | 384000              |
|         | AMD PDU header, bit                         | 16                  |
| MAC     | MAC header, bit                             | 0                   |
|         | MAC multiplexing                            | N/A                 |
| Layer 1 | TrCH type                                   | DCH                 |
|         | TB sizes, bit                               | 336                 |
|         | TFS TF0, bits                               | 0x336               |
|         | TF1, bits                                   | 1x336               |
|         | TF2, bits                                   | 2x336               |
|         | TF3, bits                                   | 4 x336              |
|         | TF4, bits                                   | 8 x336              |
|         | TF5, bits                                   | 12x336              |
|         | TF6, bits                                   | N/A (alt. 16x336)   |
|         | TF7, bits                                   | N/A (alt. 20x336)   |
|         | TF8, bits                                   | N/A ( alt. 24 x336) |
|         | TTI, ms                                     | 10 (alt. 20)        |
|         | Coding type                                 | TC                  |
|         | CRC, bit                                    | 16                  |
|         | Max number of bits/TTI after channel coding | 12684 (alt. 25368)  |
|         | Max number of bits/radio frame before rate  | 12684               |
|         | matching                                    |                     |
|         | RM attribute                                | 110-150             |

## 6.10.3.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.34.1.1.3 TFCS

| TFCS size          | 12 (alt.18)                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS               | (384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)                                              |
|                    | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| Note: In case TB s | ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                            |

6.10.3.4.1.34.1.2 Physical channel parameters

| DPCH Uplink |                      | Physical         | Physical Configuration 2      |
|-------------|----------------------|------------------|-------------------------------|
|             |                      | Configuration 1  | -                             |
|             | Midamble             | 256 chips        | 256 chips                     |
|             | Codes and time slots | SF2 x 1 code x 3 | SF2 x 1 code x 5 timeslots +  |
|             |                      | time slots       | SF4 x 1 code x 2 timeslots    |
|             |                      |                  | (alt. {SF2 x 1 code + SF4 x 1 |
|             |                      |                  | code} x 4 timeslots)          |
|             | Max. Number of data  | 6480 bits        | 13104 bits                    |
|             | bits/radio frame     |                  |                               |
|             | TFCI code word       | 16 bits          | 16 bits                       |
|             | TPC                  | 2 bits           | 2 bits                        |
|             | Puncturing Limit     | 0.48             | 1                             |

6.10.3.4.1.34.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.3.4.1.35.1 Uplink

6.10.3.4.1.35.1.1 Transport channel parameters

See clause 6.10.3.4.1.26.1.1

## 6.10.3.4.1.35.1.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88 (alt. 0.80)           |

6.10.3.4.1.35.2 Downlink

6.10.3.4.1.35.2.1 Transport channel parameters

# 6.10.3.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB    | RAB     |  |
|-----------------|----------------------|---------|--|
| RLC             | Logical channel type | DTCH    |  |
|                 | RLC mode             | AM      |  |
|                 | Payload sizes, bit   | 640     |  |
|                 | Max data rate, bps   | 2048000 |  |
|                 | AMD PDU header, bit  | 16      |  |
| MAC             | MAC header, bit      | 0       |  |
|                 | MAC multiplexing     | N/A     |  |
| Layer 1         | TrCH type            | DCH     |  |
|                 | TB sizes, bit        | 656     |  |
|                 | TFS TF0, bits        | 0x656   |  |
|                 | TF1, bits            | 1x656   |  |
|                 | TF2, bits            | 2x656   |  |
|                 | TF3, bits            | 4 x656  |  |

| Higher | RAB/Signalling RB                                   | RAB                  |
|--------|-----------------------------------------------------|----------------------|
| Layer  | TF4, bits                                           | 8 x656               |
|        | TF5, bits                                           | 12x656               |
|        | TF6, bits                                           | 16x656               |
|        | TF7, bits                                           | 20x656               |
|        | TF8, bits                                           | 24x656               |
|        | TF9, bits                                           | 28x656               |
|        | TF10, bits                                          | 31x656 (alt. 32x656) |
|        | TF11, bits                                          | N/A (alt. 36x656)    |
|        | TF12, bits                                          | N/A (alt. 40x656)    |
|        | TF13, bits                                          | N/A (alt. 44x656)    |
|        | TF14, bits                                          | N/A (alt. 48x656)    |
|        | TF15, bits                                          | N/A (alt. 52x656)    |
|        | TF16, bits                                          | N/A (alt. 56x656)    |
|        | TF17, bits                                          | N/A (alt. 60x656)    |
|        | TF18, bits                                          | N/A (alt. 64x656)    |
|        | TTI, ms                                             | 10(alt. 20)          |
|        | Coding type                                         | TC                   |
|        | CRC, bit                                            | 16                   |
|        | Max number of bits/TTI after channel coding         | 62565(alt. 129141)   |
|        | Max number of bits/radio frame before rate matching | 62565(alt. 64571)    |
|        | RM attribute                                        | 130-170              |

# 6.10.3.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.35.2.1.3 TFCS

| TFCS size          | 21 (alt.38)                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------|
| TFCS               | (2048 kbps RAB, DCCH)=                                                                                  |
|                    | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),         |
|                    | (TF8, TF0), (TF9, TF0), (TF10, TF0),                                                                    |
|                    | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),         |
|                    | (TF8, TF1), (TF9, TF1)                                                                                  |
|                    | (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,          |
|                    | TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),          |
|                    | (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),                                                     |
|                    | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),         |
|                    | (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15,         |
|                    | TF1), (TF16, TF1), (TF17, TF1(TF18, TF1))                                                               |
| Note: In case TB s | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.35.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1     | Physical Configuration 2         |
|---------------|--------------------------------------|------------------------------|----------------------------------|
|               | Midamble                             | 256 chips                    | 256 chips                        |
|               | Codes and time slots                 | SF1 x 1 code x 11 time slots | SF16 x 13 codes x 4 time slots + |
|               |                                      |                              | SF16 x 12 codes x 7 time slot    |
|               | Max. Number of data bits/radio frame | 48560 bits (alt. 48544)      | 37520 bits (alt. 37504)          |
|               | TFCI code word                       | 16 bits (alt. 32 bits)       | 16 bits (alt. 32 bits)           |
|               | Puncturing limit                     | 0.76 (alt.0.72)              | 0.56                             |

| 6.10.3.4.1.36     | Void                                                                                                                                                    |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.10.3.4.1.37     | Void                                                                                                                                                    |
| 6.10.3.4.1.38     | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB<br>+ Interactive or background / UL:32 DL:8 kbps / PS RAB<br>+ UL:3.4 DL:3.4 kbps SRBs for DCCH |
| 6.10.3.4.1.38.1   | Uplink                                                                                                                                                  |
| 6.10.3.4.1.38.1.1 | Transport channel parameters                                                                                                                            |
|                   |                                                                                                                                                         |

6.10.3.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1

6.10.3.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23.1.1.1.

6.10.3.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38.1.1.4 TFCS

| TFCS size                                                                                                                | 18                                                                               |  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, DCCH)=                 |  |
|                                                                                                                          | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |  |
|                                                                                                                          | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |  |
|                                                                                                                          | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |  |
|                                                                                                                          | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),      |  |
|                                                                                                                          | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),      |  |
|                                                                                                                          | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1)  |  |
|                                                                                                                          |                                                                                  |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                  |  |

## 6.10.3.4.1.38.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)           |

6.10.3.4.1.38.2 Downlink

6.10.3.4.1.38.2.1 Transport channel parameters

6.10.3.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.

6.10.3.4.1.38.2.1.4 TFCS

| TFCS size                                                                                                                | 12                                                                               |  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)=                   |  |
|                                                                                                                          | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |  |
|                                                                                                                          | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |  |
|                                                                                                                          | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |  |
|                                                                                                                          | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)  |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                  |  |

## 6.10.3.4.1.38.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

6.10.3.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38a.1 Uplink

6.10.3.4.1.38a.1.1 Transport channel parameters

6.10.3.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB               |
|-----------------|-----------------------------------------------------|-------------------|
| RLC             | Logical channel type                                | DTCH              |
|                 | RLC mode                                            | AM                |
|                 | Payload sizes, bit                                  | 320 (alt. 128)    |
|                 | Max data rate, bps                                  | 0                 |
|                 | AMD PDU header, bit                                 | 16                |
| MAC             | MAC header, bit                                     | 0                 |
|                 | MAC multiplexing                                    | N/A               |
| Layer 1         | TrCH type                                           | DCH               |
|                 | TB sizes, bit                                       | 336 (alt. 144)    |
|                 | TFS TF0, bits                                       | 0x336 (alt 0x144) |
|                 | TTI, ms                                             | 20                |
|                 | Coding type                                         | TC                |
|                 | CRC, bit                                            | 16                |
|                 | Max number of bits/TTI after channel coding         | 0                 |
|                 | Max number of bits/radio frame before rate matching | 0                 |
|                 | RM attribute                                        | 130-170           |

6.10.3.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38a.1.1.4 TFCS

| TFCS size                                                                                                               | 6                                                                    |  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=      |  |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |  |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)  |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                      |  |

# 6.10.3.4.1.38a.1.2 Physical channel parameters.

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68                       |

6.10.3.4.1.38a.2 Downlink

6.10.3.4.1.38a.2.1 Transport channel parameters

6.10.3.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                   | RAB     |
|-----------------|-----------------------------------------------------|---------|
| RLC             | Logical channel type                                | DTCH    |
|                 | RLC mode                                            | AM      |
|                 | Payload sizes, bit                                  | 320     |
|                 | Max data rate, bps                                  | 0       |
|                 | AMD PDU header, bit                                 | 16      |
| MAC             | MAC header, bit                                     | 0       |
|                 | MAC multiplexing                                    | N/A     |
| Layer 1         | TrCH type                                           | DCH     |
| -               | TB sizes, bit                                       | 336     |
|                 | TFS TF0, bits                                       | 0x336   |
|                 | TTI, ms                                             | 20      |
|                 | Coding type                                         | TC      |
|                 | CRC, bit                                            | 16      |
|                 | Max number of bits/TTI after channel coding         | 0       |
|                 | Max number of bits/radio frame before rate matching | 0       |
|                 | RM attribute                                        | 130-170 |

6.10.3.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.38a.2.1.4 TFCS

| TFCS size                                                                                                               | 6                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=      |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                      |

## 6.10.3.4.1.38a.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38b.1 Uplink

6.10.3.4.1.38b.1.1 Transport channel parameters

6.10.3.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38b.1.1.4 TFCS

| TFCS size        | 12 (alt. 17)                                                                                             |
|------------------|----------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=                                         |
|                  | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),                                     |
|                  | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),                                         |
|                  | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),                                     |
|                  | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)                                          |
|                  | (alt.                                                                                                    |
|                  | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),                                     |
|                  | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),                                         |
|                  | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),                                     |
|                  | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),                                     |
|                  | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)                                          |
|                  | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1))                                                            |
| Note: In case TE | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.38b.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.48 (alt. 0.56)           |

6.10.3.4.1.38b.2 Downlink

6.10.3.4.1.38b.2.1 Transport channel parameters

6.10.3.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.38b.2.1.4 TFCS

| TFCS size                                                                                                               | 12                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=     |  |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |  |
|                                                                                                                         | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0), |  |
|                                                                                                                         | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),     |  |
|                                                                                                                         | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)      |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                      |  |

## 6.10.3.4.1.38b.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

6.10.3.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38c.1 Uplink

6.10.3.4.1.38c.1.1 Transport channel parameters

6.10.3.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.10.3.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38c.1.1.4 TFCS

| TFCS size          | 18 (alt. 17)                                                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=                                     |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF1),                                          |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),                                  |
|                    | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),                                          |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),                                      |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1)                                   |
|                    | (alt.                                                                                                 |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF1),                                          |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),                                  |
|                    | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),                                      |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),                                      |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1))                                                         |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38c.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.52)           |

6.10.3.4.1.38c.2 Downlink

6.10.3.4.1.38c.2.1 Transport channel parameters

6.10.3.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.10.3.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.38c.2.1.4 TFCS

| TFCS size          | 18                                                                                                     |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=                                      |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),                                   |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF1),                                           |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),                                   |
|                    | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),                                       |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),                                       |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1)                                    |
| Note: In case TB s | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38c.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 960                          |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38d.1 Uplink

6.10.3.4.1.38d.1.1 Transport channel parameters

6.10.3.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Sign                                                                                                                                        | alling RB     | RAB              | RAB             |  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-----------------|--|
| RLC             | Logical channel type                                                                                                                            |               | DTCH             | DTCH            |  |
|                 | RLC mod                                                                                                                                         | e             | AM               | AM              |  |
|                 | Payload s                                                                                                                                       | izes, bit     | 320 (alt. 128)   | 320 (alt. 128)  |  |
|                 | Max data                                                                                                                                        |               | 64000            | 64000           |  |
|                 | AMD PDU                                                                                                                                         | J header, bit | 16               | 16              |  |
| MAC             | MAC hea                                                                                                                                         | der, bit      | 4                | 4               |  |
|                 | MAC mult                                                                                                                                        | iplexing      | 2 logical chann  | el multiplexing |  |
| Layer 1         | TrCH type                                                                                                                                       | )             | DC               | CH              |  |
|                 | TB sizes,                                                                                                                                       | bit           | 340 (alt. 148)   |                 |  |
|                 | TFS                                                                                                                                             | TF0, bits     | 0x340 (a         | lt 0x148)       |  |
|                 |                                                                                                                                                 | TF1, bits     | 1x340 (a         | lt 1x148)       |  |
|                 |                                                                                                                                                 | TF2, bits     | 2x340 (a         |                 |  |
|                 |                                                                                                                                                 | TF3, bits     | 3x340 (a         | lt 7x148)       |  |
|                 |                                                                                                                                                 | TF4, bits     | 4x340 (al        | t 10x148)       |  |
|                 | TTI, ms                                                                                                                                         |               | 20               |                 |  |
|                 | Coding ty                                                                                                                                       | ре            | TC               |                 |  |
|                 | CRC, bit 16  Max number of bits/TTI after channel coding 4284 (alt. 4932)  Max number of bits/radio frame before rate matching 2142 (alt. 2466) |               |                  |                 |  |
|                 |                                                                                                                                                 |               | 4284 (alt. 4932) |                 |  |
|                 |                                                                                                                                                 |               | 2142 (al         | t. 2466)        |  |
|                 |                                                                                                                                                 |               |                  |                 |  |
|                 | RM attribu                                                                                                                                      | ute           | 130-170          |                 |  |

# 6.10.3.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.38d.1.1.4 TFCS

| TFCS size          | 30                                                                                                     |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=                        |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),                                    |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF1,TF0),                                        |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),                                    |
|                    | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),                                    |
|                    | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),                                    |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),                                    |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1,TF1),                                    |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),                                    |
|                    | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),                                    |
|                    | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)                                     |
| Note: In case TB s | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.38d.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

6.10.3.4.1.38d.2 Downlink

6.10.3.4.1.38d.2.1 Transport channel parameters

6.10.3.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher<br>Layer | RAB/Sigi             | nalling RB                           | RAB            | RAB              |
|-----------------|----------------------|--------------------------------------|----------------|------------------|
| RLC             | Logical channel type |                                      | DTCH           | DTCH             |
|                 | RLC mod              |                                      | AM             | AM               |
|                 | Payload              | sizes, bit                           | 320            | 320              |
|                 | Max data             | rate, bps                            | 64000          | 64000            |
|                 | AMD PD               | U header, bit                        | 16             | 16               |
| MAC             | MAC hea              | der, bit                             | 4              | 4                |
|                 | MAC mu               | tiplexing                            | 2 logical chan | nel multiplexing |
| Layer 1         | TrCH typ             | e                                    | DCH            |                  |
|                 | TB sizes,            | bit                                  | 340            |                  |
|                 | TFS                  | TF0, bits                            | 0x             | 340              |
|                 |                      | TF1, bits                            | 1x             | 340              |
|                 |                      | TF2, bits                            | 2x             | 340              |
|                 |                      | TF3, bits                            | 3x             | 340              |
|                 |                      | TF4, bits                            | 4x340          |                  |
|                 | TTI, ms              |                                      | 20             |                  |
|                 | Coding ty            | /ре                                  | TC             |                  |
|                 | CRC, bit             |                                      | 16             |                  |
|                 | Max num              | ber of bits/TTI after channel coding | 4284           |                  |
|                 | Max num<br>matching  | ber of bits/radio frame before rate  | 2142           |                  |
|                 | RM attrib            | ute                                  | 130-170        |                  |

6.10.3.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.38d.2.1.4 TFCS

| TFCS size       | 30                                                                                                       |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=                          |
|                 | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),                                      |
|                 | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),                                      |
|                 | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),                                      |
|                 | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),                                      |
|                 | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),                                      |
|                 | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),                                          |
|                 | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),                                      |
|                 | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),                                      |
|                 | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),                                      |
|                 | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)                                       |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38d.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1916 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38e Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps /

CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.3.4.1.38e.1 Uplink

6.10.3.4.1.38e.1.1 Transport channel parameters

6.10.3.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75)

kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.10.3.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.38e.1.1.4 TFCS

| TFCS size                                                                                                              | 12                                                                   |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TFCS                                                                                                                   | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=     |
|                                                                                                                        | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |
|                                                                                                                        | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |
|                                                                                                                        | (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),     |
|                                                                                                                        | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1)  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise |                                                                      |

# 6.10.3.4.1.38e.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68                       |

6.10.3.4.1.38e.2 Downlink

6.10.3.4.1.38e.2.1 Transport channel parameters

6.10.3.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75)

kbps / CS RAB

See clause 6.10.3.4.1. 4a.2.1.1.

6.10.3.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.2.1.2

6.10.3.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.38e.2.1.4 TFCS

| TFCS size                                                                                                               | 12                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=     |  |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |  |
|                                                                                                                         | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |  |
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), |  |
|                                                                                                                         | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                      |  |

#### 6.10.3.4.1.38e.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38f
Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.38f.1
Uplink
6.10.3.4.1.38f.1.1
Transport channel parameters
6.10.3.4.1.38f.1.1.1
Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38f.1.1.4 TFCS

| TFCS size          | 24 (alt. 32)                                                                                          |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=                                      |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                      |
|                    | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                      |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)                                   |
|                    | (alt.                                                                                                 |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                      |
|                    | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                  |
|                    | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                  |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                      |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)                                   |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0, TF0, TF2, TF1))                                                      |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38f.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.48 (alt.0.56)            |

6.10.3.4.1.38f.2 Downlink

6.10.3.4.1.38f.2.1 Transport channel parameters

6.10.3.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.38f.2.1.4 TFCS

| TFCS size       | 24                                                                                                       |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=                                         |
|                 | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                     |
|                 | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                     |
|                 | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                         |
|                 | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                     |
|                 | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                     |
|                 | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                     |
|                 | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                         |
|                 | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)                                      |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.38f.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or

background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38g.1 Uplink

6.10.3.4.1.38g.1.1 Transport channel parameters

6.10.3.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1. 4a.1.1.1.

6.10.3.4.1.38g

6.10.3.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.10.3.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.38g.1.1.4 TFCS

| TFCS size       | 32 (alt. 31)                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=                                        |
|                 | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                     |
|                 | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                     |
|                 | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),                                             |
|                 | (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF2,TF0),                                         |
|                 | (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),                                     |
|                 | (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),                                         |
|                 | (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),                                     |
|                 | (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),                                     |
|                 | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),                                     |
|                 | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),                                     |
|                 | (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)                                                             |
|                 | (alt.                                                                                                    |
|                 | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                     |
|                 | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                     |
|                 | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),                                         |
|                 | (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF2,TF0),                                         |
|                 | (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),                                     |
|                 | (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),                                     |
|                 | (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),                                     |
|                 | (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),                                     |
|                 | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),                                     |
|                 | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),                                     |
|                 | (TF4,TF3,TF0,TF2,TF1))                                                                                   |
| Note 1: In case | TB size zero is configured for any transport channel the first TEC is required; it is optional otherwise |

Note 1: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. Note 2: The alt. TFCS is used when the 16Kbps RAB alt. is used.

## 6.10.3.4.1.38g.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                    |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot + |
|             |                                      | SF16 x 1 code x 1 time slot  |
|             | Max. Number of data bits/radio frame | 664 bits (alt. 696 bits)     |
|             | TFCI code word                       | 32 bits (alt. 16 bits)       |
|             | TPC                                  | 2 bits                       |
|             | Puncturing Limit                     | 0.56 (alt. 0.60)             |

6.10.3.4.1.38g.2 Downlink

6.10.3.4.1.38g.2.1 Transport channel parameters

6.10.3.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.2.1.1.

6.10.3.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

# 6.10.3.4.1.38g.2.1.4 TFCS

| TFCS size          | 36                                                                                                     |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=                                      |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                   |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                   |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                           |
|                    | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                   |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                   |
|                    | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                   |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                   |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                   |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                       |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),                                   |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),                                   |
|                    | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)                                    |
| Note: In case TB s | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.38g.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 700 bits                     |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.56                         |

| 6.10.3.4.1.38h       | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.10.3.4.1.38h.1     | Uplink                                                                                                                                                     |
| 6.10.3.4.1.38h.1.1   | Transport channel parameters                                                                                                                               |
| 6.10.3.4.1.38h.1.1.1 | Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB                                                       |

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.10.3.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38h.1.1.4 TFCS

| TFCS size        | 32                                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=                                      |
|                  | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                   |
|                  | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                   |
|                  | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                   |
|                  | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                   |
|                  | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                   |
|                  | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                   |
|                  | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                   |
|                  | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1, TF1),                                  |
|                  | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                   |
|                  | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                   |
|                  | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)                                                           |
| Note: In case TB | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38h.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                    |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot + |
|             |                                      | SF16 x 1 code x 1 time slot  |
|             | Max. Number of data bits/radio frame | 1084 bits                    |
|             | TFCI code word                       | 32 bits                      |
|             | TPC                                  | 2 bits                       |
|             | Puncturing Limit                     | 0.68 (alt.0.60)              |

6.10.3.4.1.38h.2 Downlink

6.10.3.4.1.38h.2.1 Transport channel parameters

6.10.3.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.10.3.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

# 6.10.3.4.1.38h.2.1.4 TFCS

| TFCS size          | 32                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=                                     |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                          |
|                    | (TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                      |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1, TF1),                                 |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                      |
|                    | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                  |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)                                                          |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38h.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 944                          |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.10.3.4.1.38i Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38i.1 Uplink

6.10.3.4.1.38i.1.1 Transport channel parameters

6.10.3.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1. 4a.1.1.1.

6.10.3.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38i.1.1.4 TFCS

| TFCS size          | 48                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                     |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                          |
|                    | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                      |
|                    | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                  |
|                    | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),                                  |
|                    | (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),                                  |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                      |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),                                  |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),                                  |
|                    | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),                                  |
|                    | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),                                  |
|                    | (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)                                   |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.38i.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1936 bits                  |
|             | TFCI code word                       | 32 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68 (alt.0.60)            |

6.10.3.4.1.38i.2 Downlink

6.10.3.4.1.38i.2.1 Transport channel parameters

6.10.3.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.38i.2.1.4 TFCS

| TFCS size           | 60                                                                                                    |
|---------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                     |
|                     | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                     | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                  |
|                     | (TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                      |
|                     | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                     | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                  |
|                     | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                  |
|                     | (TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),                                      |
|                     | (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),                                  |
|                     | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),                                  |
|                     | (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),                                  |
|                     | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                     | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                     | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                      |
|                     | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),                                  |
|                     | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),                                  |
|                     | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),                                  |
|                     | (TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),                                      |
|                     | (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),                                  |
|                     | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),                                  |
|                     | (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)                                   |
| Note: In case TB si | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.38i.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1900 bits                    |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38j.1 Uplink

See clause 6.10.3.4.1.38i.1

6.10.3.4.1.38j.2 Downlink

6.10.3.4.1.38j.2.1 Transport channel parameters

6.10.3.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

## 6.10.3.4.1.38j.2.1.4 TFCS

| TFCS size          | 60                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=                                    |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                      |
|                    | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                          |
|                    | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                    | (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),                                  |
|                    | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),                                  |
|                    | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),                                      |
|                    | (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),                                  |
|                    | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),                                  |
|                    | (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),                                  |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                    | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                      |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),                                  |
|                    | (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),                                  |
|                    | (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),                                  |
|                    | (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),                                      |
|                    | (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),                                  |
|                    | (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),                                  |
|                    | (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)                                   |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.38j.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                     |
|---------------|--------------------------------------|-------------------------------|
|               | Codes and time slots                 | SF16 x 6 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 3280 bits                     |
|               | TFCI code word                       | 32 bits                       |
|               | Puncturing limit                     | 0.64                          |

6.10.3.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.39.1 Uplink

See clause 6.10.3.4.1.38.1.

6.10.3.4.1.39.2 Downlink

6.10.3.4.1.39.2.1 Transport channel parameters

6.10.3.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.39.2.1.4 TFCS

| TFCS size          | 30                                                                                                      |
|--------------------|---------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                       |
|                    | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                        |
|                    | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                        |
|                    | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                        |
|                    | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                        |
|                    | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                        |
|                    | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                        |
|                    | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                        |
|                    | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                        |
|                    | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                        |
|                    | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                         |
| Note: In case TB s | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.39.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1936 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.40.1 Uplink

6.10.3.4.1.40.1.1 Transport channel parameters

6.10.3.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.40.1.1.4 TFCS

6.10.3.4.1.40.1.1.4.1 TFCS (one CCTrCH case)

| TFCS size             | 30                                                                                                    |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                     |
|                       | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                      |
|                       | (TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),                           |
|                       | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                      |
|                       | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                      |
|                       | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                      |
|                       | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                           |
|                       | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                      |
|                       | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                      |
|                       | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                      |
|                       | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                       |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

Note: In case 15 size zero is configured for any transport charmen, the first 11 of is required, it is obtained on

6.10.3.4.1.40.1.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.40.1.1.4.2.1 TFCS (conversational + SRB)

| TFCS size                                                                                                                | 6                                                                                |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                |
|                                                                                                                          | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), |
|                                                                                                                          | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1)       |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                  |

#### 6.10.3.4.1.40.1.1.4.2.2 TFCS (Interactive or background)

| TFCS size         | 5                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------|
| TFCS              | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                       |
|                   | (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),                        |
|                   | (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF4, TF0)                                                         |
| Note: In case TB: | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.40.1.2 Physical channel parameters

#### 6.10.3.4.1.40.1.2.1 Physical channel (one CCTrCH case)

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1808 bits                  |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.64 (alt. 0.56)           |

#### 6.10.3.4.1.40.1.2.2 Physical channel (two CCTrCH case)

## 6.10.3.4.1.40.1.2.2.1 Physical channel (conversational + SRB)

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68                       |

## 6.10.3.4.1.40.1.2.2.2 Physical channel (Interactive or background)

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1808 bits                  |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.84 (alt. 0.72)           |

## 6.10.3.4.1.40.2 Downlink

6.10.3.4.1.40.2.1 Transport channel parameters

6.10.3.4.1.40.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.40.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.40.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.40.2.1.4 TFCS

6.10.3.4.1.40.2.1.4.1 TFCS (one CCTrCH case)

See Clause 6.10.3.4.1.39.2.1.4.

6.10.3.4.1.40.2.1.4.2 TFCS (two CCTrCH case)

#### 6.10.3.4.1.40.2.1.4.2.1 TFCS (conversational + SRB)

| TFCS size            | 6                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                 | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                     |
|                      | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                      |
|                      | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1)                       |
| Note: In case TB siz | te zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.40.2.1.4.2.2 TFCS (Interactive or background)

| TFCS size            | 5                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------|
| TFCS                 | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                    |
|                      | (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),                     |
|                      | (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF4, TF0)                                                      |
| Note: In case TB siz | e zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.40.2.2 Physical channel parameters

6.10.3.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See Clause 6.10.3.4.1.39.2.2

6.10.3.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

#### 6.10.3.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 5 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1204 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.41.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.41.2 Downlink

6.10.3.4.1.41.2.1 Transport channel parameters

6.10.3.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.41.2.1.4 TFCS

6.10.3.4.1.41.2.1.4.1 TFCS (one CCTrCH case)

| TFCS size             | 30                                                                                                    |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                  | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=                                    |
|                       | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                      |
|                       | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                      |
|                       | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                      |
|                       | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                      |
|                       | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                      |
|                       | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                           |
|                       | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                           |
|                       | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                      |
|                       | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                      |
|                       | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                       |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.41.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.41.2.1.4.2.1 TFCS (conversational + SRB)

| TFCS size                                                                                                                | 6                                                                                                                                                                                                                         |  |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |  |
| Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                           |  |

# 6.10.3.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

| TFCS size            | 5                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                 | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=                                    |
|                      | (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),                      |
|                      | (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0)                                                  |
| Note: In case TB siz | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

6.10.3.4.1.41.2.2 Physical channel parameters

6.10.3.4.1.41.2.2.1 Physical channel parameters (one CCTrCH)

| DPCH Downlink | Midamble                             | 256 chips                   |
|---------------|--------------------------------------|-----------------------------|
|               | Codes and time slots                 | SF16 x 5codes x 2time slots |
|               | Max. Number of data bits/radio frame | 2744 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.52                        |

6.10.3.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

### 6.10.3.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

# 6.10.3.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2192 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0,48                         |

6.10.3.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.42.1 Uplink

6.10.3.4.1.42.1.1 Transport channel parameters

6.10.3.4.1.42.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.42.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.42.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.42.1.1.4 TFCS

See Clause 6.10.3.4.1.40.1.1.4.1.

6.10.3.4.1.42.1.2 Physical channel parameters

See Clause 6.10.3.4.1.40.1.2.1

6.10.3.4.1.42.2 Downlink

6.10.3.4.1.42.2.1 Transport channel parameters

6.10.3.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1

6.10.3.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB See clause 6.10.3.4.1.31.2.1.1.

6.10.3.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.42.2.1.4 TFCS

| TFCS size          | 30 (alt. 42)                                                                                           |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=                                     |
|                    | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                       |
|                    | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                       |
|                    | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                       |
|                    | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                       |
|                    | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                       |
|                    | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                            |
|                    | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                            |
|                    | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                       |
|                    | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                       |
|                    | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                        |
|                    | (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                      |
|                    | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                       |
|                    | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                       |
|                    | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                       |
|                    | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                       |
|                    | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                       |
|                    | (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),                       |
|                    | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                            |
|                    | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                            |
|                    | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                       |
|                    | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                       |
|                    | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                        |
|                    | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),                       |
| <u> </u>           | [(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1))                      |
| Note: In case TB s | ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

## 6.10.3.4.1.42.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                     |
|---------------|--------------------------------------|-------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 2 time slots |
|               |                                      | +SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 5504 bits (alt. 5488)         |
|               | TFCI code word                       | 16 bits (alt. 32)             |
|               | Puncturing limit                     | 0.60                          |

6.10.3.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:384 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.43.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.43.2 Downlink

6.10.3.4.1.43.2.1 Transport channel parameters

6.10.3.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.3.4.1.32.2.1.1.

6.10.3.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.43.2.1.4 TFCS

6.10.3.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

| TFCS size          | 36 (alt. 54)                                                                                            |
|--------------------|---------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=                                      |
|                    | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                        |
|                    | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                        |
|                    | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                        |
|                    | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                        |
|                    | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                        |
|                    | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                        |
|                    | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                        |
|                    | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                        |
|                    | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                        |
|                    | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                        |
|                    | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                         |
|                    | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),                        |
|                    | (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                  |
|                    | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                        |
|                    | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                        |
|                    | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                        |
|                    | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                        |
|                    | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                        |
|                    | (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),                        |
|                    | (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),                        |
|                    | (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),                        |
|                    | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                             |
|                    | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                        |
|                    | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                        |
|                    | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                        |
|                    | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                         |
|                    | (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)                         |
|                    | (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),                        |
|                    | (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)                         |
|                    | (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))                        |
| Note: In case TB s | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.43.2.1.4.2 TFCS (two CCTrCH case)

# 6.10.3.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

| TFCS size       | 6                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=                                                                  |
|                 | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF1, TF0, TF1, TF0, TF1) |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                           |

# 6.10.3.4.1.43.2.1.4.2.2 TFCS (Interactive or background)

| TFCS size       | 6 (alt. 9)                                                                                                |
|-----------------|-----------------------------------------------------------------------------------------------------------|
| TFCS            | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=                                        |
|                 | (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),                          |
|                 | (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0)                           |
|                 | (alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),                         |
|                 | (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0),                          |
|                 | (TF0, TF0, TF0, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF0, TF0, TF0, TF8, TF0))                          |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.43.2.2 Physical channel parameters

# 6.10.3.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

| DPCH Downlink | Midamble                             | 256 chips                     |
|---------------|--------------------------------------|-------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|               | Max. Number of data bits/radio frame | 6592 bits                     |
|               | TFCI code word                       | 32 bits                       |
|               | Puncturing limit                     | 0.48                          |

# 6.10.3.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

## 6.10.3.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

## 6.10.3.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH Downlink | Midamble                             | 256 chips                     |
|---------------|--------------------------------------|-------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|               | Max. Number of data bits/radio frame | 6608 bits                     |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0,52                          |

6.10.3.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.44.1 Uplink

6.10.3.4.1.44.1.1 Transport channel parameters

6.10.3.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.44.1.1.4 TFCS

| TFCS size        | 30                                                                                                      |
|------------------|---------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=                                      |
|                  | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                        |
|                  | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                        |
|                  | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                        |
|                  | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                        |
|                  | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                        |
|                  | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                        |
|                  | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                        |
|                  | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                        |
|                  | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                        |
|                  | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                         |
| Note: In case TB | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.44.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                     |
|-------------|--------------------------------------|-------------------------------|
|             | Codes and time slots                 | {SF8 x 1 code + SF2 x 1 code} |
|             |                                      | x 1 time slot                 |
|             | Max. Number of data bits/radio frame | 2616 bits                     |
|             | TFCI code word                       | 16 bits                       |
|             | TPC                                  | 2 bits                        |
|             | Puncturing Limit                     | 0.52 (alt. 0.44)              |

6.10.3.4.1.44.2 Downlink

6.10.3.4.1.44.2.1 Transport channel parameters

6.10.3.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.3.4.1.35.2.1.1.

6.10.3.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.44.2.1.4 TFCS

```
TFCS size
                    66 (alt. 114)
                    (RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=
TFCS
                    (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
                     (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
                    (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
                    (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
                    (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
                    (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
                    (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
                    (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
                    (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
                    (TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0)
                    (TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
                    (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
                    (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
                    (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
                    (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
                    (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
                    (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
                    TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
                    (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),
                    (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),
                    (TF0, TF0, TF0, TF9, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1)
                    (TF0, TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF10, TF1), (TF2, TF1, TF1, TF10, TF1)
                    (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
                    (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
                    (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
                    (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
                    (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
                    (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
                    (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
                    (TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0)
                    (TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
                    (TF0, TF0, TF0, TF11, TF0), (TF1, TF0, TF0, TF11, TF0), (TF2, TF1, TF1, TF11, TF0),
                    (TF0, TF0, TF0, TF12, TF0), (TF1, TF0, TF0, TF12, TF0), (TF2, TF1, TF1, TF12, TF0),
                    (TF0, TF0, TF0, TF13, TF0), (TF1, TF0, TF0, TF13, TF0), (TF2, TF1, TF1, TF13, TF0),
                    (TF0, TF0, TF0, TF14, TF0), (TF1, TF0, TF0, TF14, TF0), (TF2, TF1, TF1, TF14, TF0), (TF0, TF0, TF0, TF0, TF0, TF0, TF15, TF0), (TF1, TF0, TF0, TF15, TF0), (TF2, TF1, TF1, TF15, TF0),
                    (TF0, TF0, TF0, TF16, TF0), (TF1, TF0, TF0, TF16, TF0), (TF2, TF1, TF1, TF16, TF0),
                    (TF0, TF0, TF0, TF17, TF0), (TF1, TF0, TF0, TF17, TF0), (TF2, TF1, TF1, TF17, TF0),
                    (TF0, TF0, TF0, TF18, TF0), (TF1, TF0, TF0, TF18, TF0), (TF2, TF1, TF1, TF18, TF0),
                    (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
                    (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
                    (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
                    (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),
                    (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
                    (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
                    (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),
                    (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),
                    (TF0, TF0, TF0, TF9, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1),
                    (TF0, TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF10, TF1), (TF2, TF1, TF1, TF10, TF1),
                    (TF0, TF0, TF0, TF11, TF1), (TF1, TF0, TF0, TF11, TF1), (TF2, TF1, TF1, TF11, TF1),
                    (TF0, TF0, TF12, TF1), (TF1, TF0, TF0, TF12, TF1), (TF2, TF1, TF1, TF12, TF1),
                    (TF0, TF0, TF0, TF13, TF1), (TF1, TF0, TF0, TF13, TF1), (TF2, TF1, TF1, TF13, TF1),
                    (TF0, TF0, TF0, TF14, TF1), (TF1, TF0, TF0, TF14, TF1), (TF2, TF1, TF1, TF14, TF1), (TF0, TF0, TF0, TF0, TF15, TF1), (TF1, TF15, TF1), (TF0, TF0, TF15, TF1), (TF2, TF1, TF1, TF15, TF1),
                    (TF0, TF0, TF0, TF16, TF1), (TF1, TF0, TF0, TF16, TF1), (TF2, TF1, TF1, TF16, TF1),
                    (TF0, TF0, TF0, TF17, TF1), (TF1, TF0, TF0, TF17, TF1), (TF2, TF1, TF1, TF17, TF1),
                    (TF0, TF0, TF0, TF18, TF1), (TF1, TF0, TF0, TF18, TF1), (TF2, TF1, TF1, TF18, TF1))
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise
```

## 6.10.3.4.1.44.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                       |
|---------------|--------------------------------------|---------------------------------|
|               | Codes and time slots                 | SF16 x 12 codes x 11 time slots |
|               | Max. Number of data bits/radio frame | 36400 bits                      |
|               | TFCI code word                       | 32 bits                         |
|               | Puncturing limit                     | 0.52                            |

6.10.3.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.45.1 Uplink

6.10.3.4.1.45.1.1 Transport channel parameters

6.10.3.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.10.3.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.45.1.1.4 TFCS

| TFCS size        | 30                                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=                                    |
|                  | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                       |
|                  | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                       |
|                  | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                       |
|                  | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                       |
|                  | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                       |
|                  | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                       |
|                  | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                            |
|                  | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                       |
|                  | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                       |
|                  | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                        |
| Note: In case TB | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

#### 6.10.3.4.1.45.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                            |
|-------------|--------------------------------------|--------------------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot + SF4 x 1 |
|             |                                      | codex 1 time slot                    |
|             | Max. Number of data bits/radio frame | 1392bits                             |
|             | TFCI code word                       | 16 bits                              |
|             | TPC                                  | 2 bits                               |
|             | Puncturing Limit                     | 0.56                                 |

6.10.3.4.1.45.2 Downlink

6.10.3.4.1.45.2.1 Transport channel parameters

6.10.3.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.10.3.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.45.2.1.4 TFCS

| TFCS size           | 30                                                                                                   |
|---------------------|------------------------------------------------------------------------------------------------------|
| TFCS                | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=                                  |
|                     | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                     |
|                     | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                     |
|                     | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                     |
|                     | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                     |
|                     | (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                     |
|                     | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                          |
|                     | (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),                          |
|                     | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),                     |
|                     | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                     |
|                     | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)                      |
| Note: In case TB si | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

# 6.10.3.4.1.45.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1448 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

| 6.10.3.4.1.46 | Void |
|---------------|------|
| 6.10.3.4.1.47 | Void |
| 6.10.3.4.1.48 | Void |

6.10.3.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

6.10.3.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.49.1.1.4 TFCS

| TFCS size          | 12                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                     |
|                    | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                           |
|                    | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                      |
|                    | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                      |
|                    | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)                       |
| Note: In case TB s | ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

#### 6.10.3.4.1.49.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72                       |

6.10.3.4.1.49.2 Downlink

6.10.3.4.1.49.2.1 Transport channel parameters

6.10.3.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.49.2.1.4 TFCS

| TFCS size           | 12                                                                                                   |
|---------------------|------------------------------------------------------------------------------------------------------|
| TFCS                | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                    |
|                     | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                     |
|                     | (TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),                          |
|                     | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                          |
|                     | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)                      |
| Note: In case TB si | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

# 6.10.3.4.1.49.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2192 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

6.10.3.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49a.1 Uplink

6.10.3.4.1.49a.1.1 Transport channel parameters

6.10.3.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.49a.1.1.4 TFCS

| TFCS size        | 24                                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------|
| TFCS             | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                        |
|                  | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                     |
|                  | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                     |
|                  | (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                             |
|                  | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                     |
|                  | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                     |
|                  | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                     |
|                  | (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                         |
|                  | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)                                      |
| Note: In case TE | 3 size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.49a.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72                       |

6.10.3.4.1.49a.2 Downlink

6.10.3.4.1.49a.2.1 Transport channel parameters

6.10.3.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

# 6.10.3.4.1.49a.2.1.4 TFCS

| TFCS size          | 24                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|
| TFCS               | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=                                     |
|                    | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),                                  |
|                    | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),                                  |
|                    | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),                                      |
|                    | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),                                  |
|                    | (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),                                  |
|                    | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),                                  |
|                    | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),                                  |
|                    | (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)                                   |
| Note: In case TB s | ize zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.49a.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1916 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.50.1 Uplink

6.10.3.4.1.50.1.1 Transport channel parameters

6.10.3.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.50.1.1.3 TFCS

| TFCS size       | 8                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (64 kbps RAB, 64 kbps RAB, DCCH)=                                                                        |
|                 | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)                                       |
|                 | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)                                       |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

#### 6.10.3.4.1.50.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                           |
|-------------|--------------------------------------|-------------------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1time slot + SF4 x 1 |
|             |                                      | code x 1 time slot                  |
|             | Max. Number of data bits/radio frame | 2784bits                            |
|             | TFCI code word                       | 16 bits                             |
|             | TPC                                  | 2 bits                              |
|             | Puncturing Limit                     | 0.60                                |

6.10.3.4.1.50.2 Downlink

6.10.3.4.1.50.2.1 Transport channel parameters

6.10.3.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.50.2.1.3 TFCS

| TFCS size       | 8                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (64 kbps RAB, 64 kbps RAB, DCCH)=                                                                        |
|                 | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)                                       |
|                 | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)                                       |
| Note: In case T | B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

# 6.10.3.4.1.50.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 6codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2912bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

6.10.3.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51.1 Uplink

6.10.3.4.1.51.1.1 Transport channel parameters

6.10.3.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.51.1.1.4 TFCS

| TFCS size         | 20                                                                                                     |
|-------------------|--------------------------------------------------------------------------------------------------------|
| TFCS              | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=                                                            |
|                   | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),                   |
|                   | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),                   |
|                   | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),                   |
|                   | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)                    |
| Note: In case TB: | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

#### 6.10.3.4.1.51.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.44 (alt.0.40)            |

6.10.3.4.1.51.2 Downlink

6.10.3.4.1.51.2.1 Transport channel parameters

6.10.3.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51.2.1.4 TFCS

| TFCS size           | 20                                                                                                    |
|---------------------|-------------------------------------------------------------------------------------------------------|
| TFCS                | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=                                                           |
|                     | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),                  |
|                     | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),                  |
|                     | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),                  |
|                     | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)                   |
| Note: In case TB si | ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

#### 6.10.3.4.1.51.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2192 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

6.10.3.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.3.4.1.51a.1 Uplink

6.10.3.4.1.51a.1.1 Transport channel parameters

6.10.3.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.51a.1.1.4 TFCS

| TFCS size       | 8 (alt. 12)                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                                                      |
|                 | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),                                           |
|                 | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)                                       |
|                 | (alt.                                                                                                    |
|                 | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),                                                       |
|                 | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),                                                       |
|                 | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),                                                       |
|                 | (TF1, TF0, TF1), (TF1, TF1), (TF1, TF2, TF1))                                                            |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.51a.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.76                       |

6.10.3.4.1.51a.2 Downlink

6.10.3.4.1.51a.2.1 Transport channel parameters

6.10.3.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.51a.2.1.4 TFCS

| TFCS size       | 8                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                                                      |
|                 | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),                                      |
|                 | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)                                       |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.51a.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1640 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.10.3.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51b.1 Uplink

6.10.3.4.1.51b.1.1 Transport channel parameters

6.10.3.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1

6.10.3.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.51b.1.1.4 TFCS

| TFCS size          | 12                                                                                                     |
|--------------------|--------------------------------------------------------------------------------------------------------|
| TFCS               | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=                                                   |
|                    | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0,             |
|                    | TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1,              |
|                    | TF1), (TF1, TF2, TF1)                                                                                  |
| Note: In case TB s | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

#### 6.10.3.4.1.51b.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68                       |

6.10.3.4.1.51b.2 Downlink

See clause 6.10.3.4.1.51.2.

6.10.3.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.52.1 Uplink

See clause 6.10.3.4.1.51.1.

6.10.3.4.1.52.2 Downlink

6.10.3.4.1.52.2.1 Transport channel parameters

6.10.3.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.52.2.1.4 TFCS

| TFCS size        | 20                                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------|
| TFCS             | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=                                                           |
|                  | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),                   |
|                  | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),                   |
|                  | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),                   |
|                  | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)                    |
| Note: In case TB | size zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

# 6.10.3.4.1.52.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                        |
|---------------|--------------------------------------|----------------------------------|
|               | Codes and time slots                 | {SF16 x 8 codes x 1 time slot} + |
|               |                                      | {SF16 x 5 codes x 1 time slot}   |
|               | Max. Number of data bits/radio frame | 3156 bits                        |
|               | TFCI code word                       | 16 bits                          |
|               | Puncturing limit                     | 0.44                             |

6.10.3.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:128 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.53.1 Uplink

6.10.3.4.1.53.1.1 Transport channel parameters

6.10.3.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.53.1.1.4 TFCS

| TFCS size             | 20                                                                                                   |
|-----------------------|------------------------------------------------------------------------------------------------------|
| TFCS                  | (Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=                                                          |
|                       | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),                 |
|                       | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),                 |
|                       | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),                 |
|                       | (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)                  |
| Note: In case TB size | ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise |

# 6.10.3.4.1.53.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 2 timeslots |
|             | Max. Number of data bits/radio frame | 3760 bits                  |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)           |

6.10.3.4.1.53.2 Downlink

See clause 6.10.3.4.1.52.2.

6.10.3.4.1.54 Void

6.10.3.4.1.55 Void

6

6.10.3.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.56.1 Uplink

6.10.3.4.1.56.1.1 Transport channel parameters

6.10.3.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher<br>Layer | RAB/Sigi                                    | nalling RB                          | RAB                            | RAB           |
|-----------------|---------------------------------------------|-------------------------------------|--------------------------------|---------------|
| RLC             | Logical c                                   | hannel type                         | DTCH                           | DTCH          |
|                 | RLC mod                                     | de                                  | AM                             | AM            |
|                 | Payload                                     | sizes, bit                          | 320 (alt. 128)                 | 320 (alt.128) |
|                 | Max data                                    | rate, bps                           | 8000                           | 8000          |
|                 | AMD PD                                      | U header, bit                       | 16                             | 16            |
| MAC             | MAC hea                                     | der, bit                            | 4                              | 4             |
|                 | MAC mu                                      | ltiplexing                          | 2 logical channel multiplexing |               |
| Layer 1         | TrCH type                                   |                                     | DCH                            |               |
|                 | TB sizes, bit                               |                                     | 340 (alt. 148)                 |               |
|                 | TFS                                         | TF0, bits                           | 0x340 (alt. 0x148)             |               |
|                 |                                             | TF1, bits                           | 1x340 (al                      | t. 1x148)     |
|                 |                                             | TF2, bits                           | N/A (alt.                      |               |
|                 | TTI, ms                                     |                                     | 40 (alt. 80)                   |               |
|                 | Coding type                                 |                                     | TC                             |               |
|                 | CRC, bit                                    |                                     | 16                             |               |
|                 | Max number of bits/TTI after channel coding |                                     | 1080 (alt. 2472)               |               |
|                 |                                             | ber of bits/radio frame before rate | 270 (a                         | lt.309)       |
|                 | matching                                    |                                     |                                |               |
|                 | RM attrib                                   | ute                                 | 135-                           | -175          |

# 6.10.3.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.56.1.1.3 TFCS

| TFCS size       | 4 (alt. 6)                                                                                               |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (8 kbps RAB + 8 kbps RAB, DCCH)=                                                                         |
|                 | (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)                                                               |
|                 | (alt. (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1))                                  |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.56.1.2 Physical channel parameters

| DPCH Uplink     | Midamble                                   | 512 chips                           |
|-----------------|--------------------------------------------|-------------------------------------|
|                 | Codes and time slots                       | SF16 x 1 code x 1 time slot         |
|                 | Max. Number of data bits/radio frame       | 226 bits                            |
|                 | TFCI code word                             | 16 bits                             |
|                 | TPC                                        | 2 bits                              |
|                 | Puncturing Limit                           | 0.52 (alt. 0.48)                    |
| Note: In case t | ne first TFC in the TFCS is not configured | , the TFCI code word will be 8 bits |

Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits (alt. 16 bits).

6.10.3.4.1.56.2 Downlink

6.10.3.4.1.56.2.1 Transport channel parameters

6.10.3.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                                   | RAB                            | RAB  |
|-----------------|-----------------------------------------------------|--------------------------------|------|
| RLC             | Logical channel type                                | DTCH                           | DTCH |
|                 | RLC mode                                            | AM                             | AM   |
|                 | Payload sizes, bit                                  | 320                            | 320  |
|                 | Max data rate, bps                                  | 8000                           | 8000 |
|                 | AMD PDU header, bit                                 | 16                             | 16   |
| MAC             | MAC header, bit                                     | 4                              | 4    |
|                 | MAC multiplexing                                    | 2 logical channel multiplexing |      |
| Layer 1         | TrCH type                                           | DCH                            |      |
| -               | TB sizes, bit                                       | 340                            |      |
|                 | TFS TF0, bits                                       | 0x                             | 340  |
|                 | TF1, bits                                           | 1x                             | 340  |
|                 | TTI, ms                                             | 40                             |      |
|                 | Coding type                                         | TC                             |      |
|                 | CRC, bit                                            | 16                             |      |
|                 | Max number of bits/TTI after channel coding         | 1080                           |      |
|                 | Max number of bits/radio frame before rate matching | 2                              | 70   |
|                 | RM attribute                                        | 135                            | -175 |

# 6.10.3.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.56.2.1.3 TFCS

| TFCS size           | 4                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------|
| TFCS                | (8 kbps RAB + 8 kbps RAB, DCCH)=                                                                     |
|                     | (TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)                                                           |
| Note: In case TB si | ze zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.56.2.2 Physical channel parameters

| DPCH Downlink     | Midamble                                   | 512 chips                         |
|-------------------|--------------------------------------------|-----------------------------------|
|                   | Codes and time slots                       | SF16 x 1 codes x 1 time slot      |
|                   | Max. Number of data bits/radio frame       | 228 bits                          |
|                   | TFCI code word                             | 16 bits                           |
|                   | Puncturing limit                           | 0.56                              |
| Note: In case the | first TFC in the TFCS is not configured, t | he TFCI code word will be 8 bits. |

| 6.10.3.4.1.57       | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.10.3.4.1.57.1     | Uplink                                                                                                                                           |
| 6.10.3.4.1.57.1.1   | Transport channel parameters                                                                                                                     |
| 6.10.3.4.1.57.1.1.1 | Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB                                           |

See clause 6.10.3.4.1.38d.1.1.2.

6.10.3.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.57.1.1.3 TFCS

| TFCS size                                                                                                               | 10                                                     |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| TFCS                                                                                                                    | (64 kbps RAB + 64 kbps RAB, DCCH)=                     |
|                                                                                                                         | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), |
|                                                                                                                         | (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                        |

# 6.10.3.4.1.57.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 256 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2064 bits                  |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88 (alt. 0.76)           |

6.10.3.4.1.57.2 Downlink

6.10.3.4.1.57.2.1 Transport channel parameters

6.10.3.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Sign      | alling RB                            | RAB             | RAB              |
|--------------|---------------|--------------------------------------|-----------------|------------------|
| RLC          | Logical ch    | annel type                           | DTCH            | DTCH             |
|              | RLC mod       | e                                    | AM              | AM               |
|              | Payload s     | izes, bit                            | 320             | 320              |
|              | Max data      | rate, bps                            | 64000           | 64000            |
|              | AMD PDU       | J header, bit                        | 16              | 16               |
| MAC          | MAC head      | der, bit                             | 4               | 4                |
|              | MAC mult      | iplexing                             | 2 logical chann | nel multiplexing |
| Layer 1      | TrCH type     | ;                                    | DC              | CH               |
| 1            | TB sizes, bit |                                      | 340             |                  |
|              | TFS           | TF0, bits                            | 0x340           |                  |
|              |               | TF1, bits                            | 1x340           |                  |
|              |               | TF2, bits                            | 2x340           |                  |
|              |               | TF3, bits                            | 3x3             | 340              |
|              |               | TF4, bits                            | 4x3             | 340              |
|              | TTI, ms       |                                      | 20              |                  |
|              | Coding ty     | pe                                   | TC              |                  |
|              | CRC, bit      |                                      | 16              |                  |
|              | Max numb      | per of bits/TTI after channel coding | 4284            |                  |
|              | Max numb      | per of bits/radio frame before rate  | 2142            |                  |
|              | RM attribu    | ute                                  | 130-            | -170             |

6.10.3.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.57.2.1.3 TFCS

| TFCS size           | 10                                                                                                   |
|---------------------|------------------------------------------------------------------------------------------------------|
| TFCS                | (64 kbps RAB + 64 kbps RAB, DCCH)=                                                                   |
|                     | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),                                               |
|                     | (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)                                                |
| Note: In case TB si | ze zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.57.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 5 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1364 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.58.1 Uplink

6.10.3.4.1.58.1.1 Transport channel parameters

# 6.10.3.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 320     |
|                 | Max data rate, bps                          | 16000   |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TF1, bits                                   | 1x336   |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 1068    |
|                 | Max number of bits/radio frame before rate  | 534     |
|                 | matching                                    |         |
|                 | RM attribute                                | 135-175 |

6.10.3.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.58.1.1.4 TFCS

| TFCS size        | 8 (alt. 12)                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------|
| TFCS             | (16 kbps RAB, 8 kbps RAB, DCCH)=                                                                       |
|                  | (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0),                                            |
|                  | (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1)                                             |
|                  | (alt.                                                                                                  |
|                  | (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF2,TF0), (TF1,TF2,TF0),              |
|                  | (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF0,TF2,TF1), (TF1,TF2,TF1))              |
| Note: In case TB | size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.58.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                    |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot + |
|             |                                      | SF16 x 1code x 1 time slot   |
|             | Max. Number of data bits/radio frame | 696 bits                     |
|             | TFCI code word                       | 16 bits                      |
|             | TPC                                  | 2 bits                       |
|             | Puncturing Limit                     | 0.72 (alt. 0.68)             |

6.10.3.4.1.58.2 Downlink

6.10.3.4.1.58.2.1 Transport channel parameters

# 6.10.3.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| Higher<br>layer | RAB/Sig          | nalling RB                            | RAB     |
|-----------------|------------------|---------------------------------------|---------|
| RLC             | Logical          | channel type                          | DTCH    |
|                 | RLC mo           | de                                    | AM      |
|                 | Payload          | sizes, bit                            | 640     |
|                 | Max data         | a rate, bps                           | 64000   |
|                 | AM PDU           | header, bit                           | 16      |
| MAC             | MAC header, bit  |                                       | 0       |
|                 | MAC multiplexing |                                       | N/A     |
| Layer 1         | TrCH type        |                                       | DCH     |
| -               | TB sizes         | , bit                                 | 656     |
|                 | TFS              | TF0, bits                             | 0x656   |
|                 |                  | TF1, bits                             | 1x656   |
|                 |                  | TF2, bits                             | 2x656   |
|                 |                  | TF3, bits                             | 4x656   |
|                 | TTI, ms          |                                       | 40      |
|                 | Coding t         | уре                                   | TC      |
|                 | CRC, bit         |                                       | 16      |
|                 | Max nun          | nber of bits/TTI after channel coding | 8076    |
|                 | Max nun          | nber of bits/radio frame before rate  | 2019    |
|                 | matching         |                                       |         |
|                 | RM attrib        | oute                                  | 125-165 |

6.10.3.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.58.2.1.4 TFCS

| TFCS size       | 16                                                                                                       |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (64 kbps RAB, 8 kbps RAB, DCCH)=                                                                         |
|                 | (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0),                                              |
|                 | (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),                                              |
|                 | (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1),                                              |
|                 | (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1)                                               |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.58.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 256 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1640 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

6.10.3.4.1.59 Reserved for future use
6.10.3.4.1.60 Reserved for future use
6.10.3.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.61.1 Uplink
6.10.3.4.1.61.1.1 Transport channel parameters

#### 6.10.3.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                    |
|--------------|-----------------------------------------------------|------------------------|
| RLC          | Logical channel type                                | DTCH                   |
|              | RLC mode                                            | UM                     |
|              | Payload sizes, bit                                  | 320                    |
|              | Max data rate, bps                                  | 8000                   |
|              | UMD PDU header, bit                                 | 8                      |
| MAC          | MAC header, bit                                     | 0                      |
|              | MAC multiplexing                                    | N/A                    |
| Layer 1      | TrCH type                                           | DCH                    |
|              | TB sizes, bit                                       | 328 (alt 0, 328)       |
|              | TFS TF0, bits                                       | 0x328 (alt 1x0) (note) |
|              | TF1, bits                                           | 1x328                  |
|              | TTI, ms                                             | 40                     |
|              | Coding type                                         | TC                     |
|              | CRC, bit                                            | 16                     |
|              | Max number of bits/TTI after channel coding         | 1044                   |
|              | Max number of bits/radio frame before rate matching | 261                    |
|              | RM attribute                                        | 135-175                |

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1

#### 6.10.3.4.1.61.1.1.4 TFCS

| TFCS size       | 8 (alt. 12)                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------|
| TFCS            | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                                                       |
|                 | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),                                           |
|                 | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)                                       |
|                 | (alt.                                                                                                    |
|                 | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),                                                       |
|                 | (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),                                                       |
|                 | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),                                                       |
|                 | (TF1, TF0, TF1), (TF1, TF1), (TF1, TF2, TF1))                                                            |
| Note: In case T | B size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

# 6.10.3.4.1.61.1.2 Physical channel parameters

| DPCH Uplink | Midamble                             | 512 chips                  |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68 (alt. 0.64)           |

6.10.3.4.1.61.2 Downlink

6.10.3.4.1.61.2.1 Transport channel parameters

# 6.10.3.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

| Higher       |              | RAB/Signalling RB                          | RAB                                                   |
|--------------|--------------|--------------------------------------------|-------------------------------------------------------|
| layer<br>RLC | Logical      | channel type                               | DTCH                                                  |
|              | RLC mod      | * '                                        | UM                                                    |
|              |              | sizes, bit                                 | 320                                                   |
|              |              | a rate, bps                                | 8000                                                  |
|              |              | U header, bit                              | 8                                                     |
| MAC          | MAC hea      | ader, bit                                  | 0                                                     |
|              | MAC mu       | Itiplexing                                 | N/A                                                   |
| Layer 1      | TrCH typ     | pe                                         | DCH                                                   |
|              | TB sizes     | , bit                                      | 328 (alt 0, 328)                                      |
|              | TFS          | TF0, bits                                  | 0x328 (alt 1x0) (note)                                |
|              |              | TF1, bits                                  | 1x328                                                 |
|              | TTI, ms      |                                            | 40                                                    |
|              | Coding t     | ype                                        | TC                                                    |
|              | CRC, bit     |                                            | 16                                                    |
|              | Max num      | nber of bits/TTI after channel coding      | 1044                                                  |
| Max number   |              | nber of bits/radio frame before rate       | 261                                                   |
|              | matching     |                                            |                                                       |
|              | RM attrib    |                                            | 135-175                                               |
| NOTE: In ca  | ase of using | this alternative, CRC parity bits are to b | e attached any time since number of TrBlks are 1 even |

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

#### 6.10.3.4.1.61.2.1.4 TFCS

| TFCS size                                                                                                               | 8                                                                  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|--|--|
| TFCS                                                                                                                    | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=                 |  |  |  |
|                                                                                                                         | (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),     |  |  |  |
|                                                                                                                         | (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |  |  |  |
| Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                    |  |  |  |

#### 6.10.3.4.1.61.2.2 Physical channel parameters

| DPCH Downlink | Midamble                             | 512 chips                    |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

# 6.10.3.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.10.3.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.1.1 Uplink

6.10.3.4.2.1.1.1 Transport channel parameters

# 6.10.3.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

| Higher  | RAB/Signalling RB                           | RAB                 | SRB#5   |
|---------|---------------------------------------------|---------------------|---------|
| Layer   |                                             |                     |         |
| RLC     | Logical channel type                        | DTCH                | SHCCH   |
|         | RLC mode                                    | AM                  | TM      |
|         | Payload sizes, bit                          | 320                 | 168     |
|         | Max data rate, bps                          | 64000               | 16800   |
|         | AMD/TrD PDU header, bit                     | 16                  | 0       |
| MAC     | MAC header, bit                             | 1                   | 1       |
|         | MAC multiplexing                            | N/A                 | N/A     |
| Layer 1 | TrCH type                                   | USCH                | USCH    |
|         | TB sizes, bit                               | 337 (alt. 145)      | 169     |
|         | TFS TF0, bits                               | 0x337 (alt. 0x145)  | 0x169   |
|         | TF1, bits                                   | 1x337 (alt. 1x145)  | 1x169   |
|         | TF2, bits                                   | 2x337 (alt. 3x145)  | N/A     |
|         | TF3, bits                                   | 3x337 (alt. 7x145)  | N/A     |
|         | TF4, bits                                   | 4x337 (alt. 10x145) | N/A     |
|         | TTI, ms                                     | 20                  | 10      |
|         | Coding type                                 | TC                  | CC 1/2  |
|         | CRC, bit                                    | 16                  | 16      |
|         | Max number of bits/TTI after channel coding | 4248 (alt. 4842)    | 386     |
|         | Max number of bits/radio frame before rate  | 2124 (alt. 2421)    | 386     |
|         | matching                                    | ,                   |         |
|         | RM attribute                                | 135-175             | 230-250 |

6.10.3.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

| Higher layer | RAB/signalling RB                     | RAB/signalling RB    |                                | SRB#2 | SRB#3     | SRB#4    |  |
|--------------|---------------------------------------|----------------------|--------------------------------|-------|-----------|----------|--|
|              | User of Radio Bear                    | User of Radio Bearer |                                | RRC   | NAS_DT    | NAS_DT   |  |
|              |                                       |                      |                                |       | High prio | Low prio |  |
| RLC          | Logical channel typ                   | Logical channel type |                                | DCCH  | DCCH      | DCCH     |  |
|              | RLC mode                              |                      | UM                             | AM    | AM        | AM       |  |
|              | Payload sizes, bit                    |                      | 136                            | 128   | 128       | 128      |  |
|              | Max data rate, bps                    |                      | 3400                           | 3200  | 3200      | 3200     |  |
|              | AMD/UMD PDU he                        | eader, bit           | 8                              | 16    | 16        | 16       |  |
| MAC          | MAC header, bit                       | MAC header, bit      |                                | 5     | 5         | 5        |  |
|              | MAC multiplexing                      |                      | 4 logical channel multiplexing |       |           |          |  |
| Layer 1      | TrCH type                             |                      | USCH                           |       |           |          |  |
|              | TB sizes, bit                         |                      | 149                            |       |           |          |  |
|              | TFS                                   | TF0, bits            | 0x149                          |       |           |          |  |
|              |                                       | TF1, bits            | 1x149                          |       |           |          |  |
|              | TTI, ms                               |                      | 40                             |       |           |          |  |
|              | Coding type                           |                      | CC 1/3                         |       |           |          |  |
|              | CRC, bit                              |                      | 16                             |       |           |          |  |
|              | Max number of bits                    | /TTI before rate     | 519                            |       |           |          |  |
|              | matching                              | matching             |                                |       |           |          |  |
|              | Max number of bits/radio frame before |                      | e 130                          |       |           |          |  |
|              | rate matching                         |                      |                                |       |           |          |  |
|              | RM attribute                          |                      |                                | 190-  | -210      |          |  |

# 6.10.3.4.2.1.1.1.3 TFCS for USCH

| TFCS size | 20                                                                                         |
|-----------|--------------------------------------------------------------------------------------------|
| TFCS      | (64 kbps RAB, SHCCH, SRBs for DCCH)=                                                       |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, |
|           | TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0,  |
|           | TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),                  |
|           | (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1)        |

# 6.10.3.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

# 6.10.3.4.2.1.1.1.4.1 RACH transport channel configuration without DTCH

| Higher  | RAB/signalling RB    | SRB#0                                | SRB#1 | SRB#2 | SRB#3     | SRB#4    | SRB#5 |  |
|---------|----------------------|--------------------------------------|-------|-------|-----------|----------|-------|--|
| layer   | User of Radio Bearer | RRC                                  | RRC   | RRC   | NAS_DT    | NAS_DT   | RRC   |  |
|         |                      |                                      |       |       | High prio | Low prio |       |  |
| RLC     | Logical channel type | CCCH                                 | DCCH  | DCCH  | DCCH      | DCCH     | SHCCH |  |
|         | RLC mode             | TM                                   | UM    | AM    | AM        | AM       | TM    |  |
|         | Payload sizes, bit   | 168                                  | 136   | 128   | 128       | 128      | 168   |  |
|         | Max data rate, bps   | 16800                                | 13600 | 12800 | 12800     | 12800    | 16800 |  |
|         | AMD/UMD/TrD PDU      | 0                                    | 8     | 16    | 16        | 16       | 0     |  |
|         | header, bit          |                                      |       |       |           |          |       |  |
| MAC     | MAC header, bit      | 2                                    | 26    | 26    | 26        | 26       | 2     |  |
|         | MAC multiplexing     | exing 6 logical channel multiplexing |       |       |           |          |       |  |
| Layer 1 | TrCH type            | RACH                                 |       |       |           |          |       |  |
|         | TB sizes, bit        |                                      |       | 17    | 70        |          |       |  |
|         | TFS TF0, bits        | 1x170                                |       |       |           |          |       |  |

| Higher | RAB/signalling RB      | SRB#0 | SRB#1 | SRB#2 | SRB#3     | SRB#4    | SRB#5 |
|--------|------------------------|-------|-------|-------|-----------|----------|-------|
| layer  | User of Radio Bearer   | RRC   | RRC   | RRC   | NAS_DT    | NAS_DT   | RRC   |
|        |                        |       |       |       | High prio | Low prio |       |
|        | TTI, ms                |       |       | 10    | )         |          |       |
|        | Coding type            |       |       | CC    | 1/2       |          |       |
|        | CRC, bit               | 16    |       |       |           |          |       |
|        | Max number of          | 388   |       |       |           |          |       |
|        | bits/TTI after channel |       |       |       |           |          |       |
|        | coding                 |       |       |       |           |          |       |
|        | Max number of          | 388   |       |       |           |          |       |
|        | bits/radio frame       |       |       |       |           |          |       |
|        | before rate matching   |       |       |       |           |          |       |

# 6.10.3.4.2.1.1.1.4.2 RACH transport channel configuration with DTCH

| Higher | RAB/signalling RB  | RAB          | SRB#0 | SRB#1     | SRB#2        | SRB#3     | SRB#4    | SRB#5 |
|--------|--------------------|--------------|-------|-----------|--------------|-----------|----------|-------|
| layer  | User of Radio      | Interactive/ | RRC   | RRC       | RRC          | NAS_DT    | NAS_DT   | RRC   |
|        | Bearer             | Background   |       |           |              | High prio | Low prio |       |
|        |                    | RAB          |       |           |              |           |          |       |
| RLC    | Logical channel    | DTCH         | CCCH  | DCCH      | DCCH         | DCCH      | DCCH     | SHCCH |
|        | type               |              |       |           |              |           |          |       |
|        | RLC mode           | AM           | TM    | UM        | AM           | AM        | AM       | TM    |
|        | Payload sizes, bit | 128          | 168   | 136       | 128          | 128       | 128      | 168   |
|        | Max data rate, bps | 12800        | 16800 | 13600     | 12800        | 12800     | 12800    | 16800 |
|        | AMD/UMD/TrD        | 16           | 0     | 8         | 16           | 16        | 16       | 0     |
|        | PDU header, bit    |              |       |           |              |           |          |       |
| MAC    | MAC header, bit    | 26           | 2     | 26        | 26           | 26        | 26       | 2     |
|        | MAC multiplexing   |              |       | 7 logical | channel mult | tiplexing |          |       |
| Layer  | TrCH type          |              |       |           | RACH         |           |          |       |
| 1      | TB sizes, bit      |              |       |           | 170          |           |          |       |
|        | TFS TF0, bits      |              |       |           | 1x170        |           |          |       |
|        | TTI, ms            |              |       |           | 10           |           |          |       |
|        | Coding type        |              |       |           | CC 1/2       |           |          |       |
|        | CRC, bit           |              |       |           | 16           |           |          |       |
|        | Max number of      |              |       |           | 388          |           |          |       |
|        | bits/TTI after     |              |       |           |              |           |          |       |
|        | channel coding     |              |       |           |              |           |          |       |
|        | Max number of      |              |       |           | 388          |           |          |       |
|        | bits/radio frame   |              |       |           |              |           |          |       |
|        | before rate        |              |       |           |              |           |          |       |
|        | matching           |              |       |           |              |           |          |       |

# 6.10.3.4.2.1.1.2 Physical channel parameters

# 6.10.3.4.2.1.1.2.1 Physical channel parameters for PUSCH

| PUSCH | Midamble                             | 512 chips                  |
|-------|--------------------------------------|----------------------------|
|       | Codes and time slots                 |                            |
|       |                                      | SF2 x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 1808 bits                  |
|       | TFCI code word                       | 16 bits                    |
|       | TPC                                  | 2 bits                     |
|       | Puncturing Limit                     | 0.60 (alt. 0.56)           |

6.10.3.4.2.1.1.2.2 Physical channel parameters for PRACH

| PRACH | Midamble                             | 512 chips                    |
|-------|--------------------------------------|------------------------------|
|       | Codes and time slots                 | SF8 (alt. SF16) x 1 code x 1 |
|       |                                      | time slot                    |
|       | Max. Number of data bits/radio frame | 464 (alt. 232)               |
|       | Puncturing Limit                     | 1 (alt. 0.56)                |

6.10.3.4.2.1.2 Downlink

6.10.3.4.2.1.2.1 Transport channel parameters

# 6.10.3.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher<br>Layer | RAB/Signalling RB                                             | RAB               | SRB#5   |
|-----------------|---------------------------------------------------------------|-------------------|---------|
| RLC             | Logical channel type                                          | DTCH              | SHCCH   |
|                 | RLC mode                                                      | AM                | UM      |
|                 | Payload sizes, bit                                            | 320               | 160     |
|                 | Max data rate, bps                                            | 256000            | 16000   |
|                 | AMD/UMD PDU header, bit                                       | 16                | 8       |
| MAC             | MAC header, bit                                               | 1                 | 1       |
|                 | MAC multiplexing                                              | N/A               | N/A     |
| Layer 1         | TrCH type                                                     | DSCH              | DSCH    |
|                 | TB sizes, bit                                                 | 337               | 169     |
|                 | TFS TF0, bits                                                 | 0x337             | 0x169   |
|                 | TF1, bits                                                     | 1x337             | 1x169   |
|                 | TF2, bits                                                     | 2x337             | N/A     |
|                 | TF3, bits                                                     | 4x337             | N/A     |
|                 | TF4, bits                                                     | 8x337             | N/A     |
|                 | TF5, bits                                                     | N/A (alt. 12x337) | N/A     |
|                 | TF6, bits                                                     | N/A (alt. 16x337) | N/A     |
|                 | TTI, ms                                                       | 10 (alt. 20)      | 10      |
|                 | Coding type                                                   | TC                | CC 1/2  |
|                 | CRC, bit                                                      | 16                | 16      |
|                 | Max number of bits/TTI after channel coding                   | 8484 (alt. 16968) | 386     |
|                 | Downlink: Max number of bits/radio frame before rate matching | 8484 (alt. 8484)  | 386     |
|                 | RM attribute                                                  | 135-175           | 230-250 |

# 6.10.3.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

| Higher layer  | RAB/signalling RB   |            | SRB#1           | SRB#2           | SRB#3    | SRB#4 |
|---------------|---------------------|------------|-----------------|-----------------|----------|-------|
|               | User of Radio Bea   | RRC        | RRC             | NAS_DT          | NAS_DT   |       |
|               |                     |            |                 | High prio       | Low prio |       |
| RLC           | Logical channel typ | е          | DCCH            | DCCH            | DCCH     | DCCH  |
|               | RLC mode            |            | UM              | AM              | AM       | AM    |
|               | Payload sizes, bit  | 136        | 128             | 128             | 128      |       |
|               | Max data rate, bps  |            | 3400            | 3200            | 3200     | 3200  |
|               | AMD/UMD PDU he      | eader, bit | 8               | 16              | 16       | 16    |
| MAC           | MAC header, bit     |            | 5               | 5               | 5        | 5     |
|               | MAC multiplexing    |            | 4 logical chann | el multiplexing |          |       |
| Layer 1       | TrCH type           |            |                 | DS              | CH       |       |
| TB sizes, bit |                     | 149        |                 |                 |          |       |
|               | TFS                 |            | 0x1             | 149             |          |       |

|                       | TF1, bits                             | 1. | x149  |
|-----------------------|---------------------------------------|----|-------|
| TTI, ms               |                                       |    | 40    |
| Coding type           |                                       | C  | C 1/3 |
| CRC, bit              |                                       |    | 16    |
| Max number of bits/T  | TI before rate                        |    | 519   |
| matching              |                                       |    |       |
| Max number of bits/ra | Max number of bits/radio frame before |    | 130   |
| rate matching         |                                       |    |       |
| RM attribute          |                                       | 15 | 5-165 |

# 6.10.3.4.2.1.2.1.3 TFCS for DSCH

| TFCS size | 20 (alt. 28)                                                                                     |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS      | (256 kbps RAB, SHCCH, SRB for DCCH)=                                                             |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0,       |
|           | TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0,        |
|           | TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),                        |
|           | (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1)              |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, |
|           | TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1,        |
|           | TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),       |
|           | (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1),             |
|           | (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,       |
|           | TF1, TF1), (TF6, TF1, TF1))                                                                      |

6.10.3.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

# 6.10.3.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

| RLC                                                 |                               | nannel type      | RRC                   | RRC                                           | RRC                   | NAS_DT                | NAS_DT                | RRC                   | 550                   |
|-----------------------------------------------------|-------------------------------|------------------|-----------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| RLC                                                 | RLC mod                       |                  |                       |                                               |                       | High prio             | Low prio              | KKC                   | RRC                   |
|                                                     | RLC mod                       |                  | CCCH                  | DCCH                                          | DCCH                  | DCCH                  | DCCH                  | SHCCH                 | BCCH                  |
|                                                     | Payload s                     | C                | UM                    | UM                                            | AM                    | AM                    | AM                    | UM                    | TM                    |
|                                                     |                               | sizes, bit       | 160                   | 136 or 120<br>(note)                          | 128                   | 128                   | 128                   | 160                   | 168                   |
|                                                     | Max data                      | rate, bps        | 32000 (alt.<br>16000) | 27200 or<br>24000 (alt.<br>13600 or<br>12000) | 25600 (alt.<br>12800) | 25600 (alt.<br>12800) | 25600 (alt.<br>12800) | 32000 (alt.<br>16000) | 33600 (alt.<br>16800) |
|                                                     | AMD/UM header, b              | D/TrD PDU<br>oit | 8                     | 8                                             | 16                    | 16                    | 16                    | 8                     | 0                     |
| MAC                                                 | MAC hea                       | der, bit         | 3                     | 27 or 43                                      | 27                    | 27                    | 27                    | 3                     | 3                     |
|                                                     | MAC mul                       | tiplexing        |                       |                                               | 7 logica              | I channel mult        | iplexing              |                       |                       |
| Layer 1                                             | r 1 TrCH type                 |                  | rCH type FACH         |                                               |                       |                       |                       |                       |                       |
|                                                     | TB sizes,                     | bit              | 171                   |                                               |                       |                       |                       |                       |                       |
|                                                     | TFS                           | TF0, bits        | 0x171                 |                                               |                       |                       |                       |                       |                       |
|                                                     |                               | TF1, bits        | 1x171                 |                                               |                       |                       |                       |                       |                       |
|                                                     |                               | TF2, bits        | 2x171                 |                                               |                       |                       |                       |                       |                       |
|                                                     |                               | TF3, bits        | 3x171(alt. N/A)       |                                               |                       |                       |                       |                       |                       |
|                                                     |                               | TF4, bits        |                       |                                               |                       | 1x171(alt. N/A)       |                       |                       |                       |
|                                                     | TTI, ms                       |                  |                       |                                               |                       | 20                    |                       |                       |                       |
|                                                     |                               | oding type TC    |                       |                                               |                       |                       |                       |                       |                       |
|                                                     | CRC, bit                      |                  | 16                    |                                               |                       |                       |                       |                       |                       |
|                                                     | Max number of                 |                  | 2256 (alt. 1134)      |                                               |                       |                       |                       |                       |                       |
|                                                     | bits/TTI after channel coding |                  |                       |                                               |                       |                       |                       |                       |                       |
| Max number of bits/radio frame before rate matching |                               | 1128 (alt. 567)  |                       |                                               |                       |                       |                       |                       |                       |
| NOTE:                                               |                               |                  | RLC payload           | size depend or                                | n use of U-RN         | TI or C-RNTI.         |                       |                       |                       |

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# 6.10.3.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

| Higher  | RAB/sign               | alling RB              | RAB                               | SRB#0                 | SRB#1                                         | SRB#2                 | SRB#3                 | SRB#4                 | SRB#5                 | SRB#6                 |
|---------|------------------------|------------------------|-----------------------------------|-----------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| layer   | User of R              | adio Bearer            | Interactive/<br>Background<br>RAB | RRC                   | RRC                                           | RRC                   | NAS_DT<br>High prio   | NAS_DT<br>Low prio    | RRC                   | RRC                   |
| RLC     |                        | nannel type            | DTCH                              | CCCH                  | DCCH                                          | DCCH                  | DCCH                  | DCCH                  | SHCCH                 | BCCH                  |
|         | RLC mod                |                        | AM                                | UM                    | UM                                            | AM                    | AM                    | AM                    | UM                    | TM                    |
|         | Payload s              |                        | 320                               | 160                   | 136 or 120<br>(note)                          | 128                   | 128                   | 128                   | 160                   | 168                   |
|         | Max data               | rate, bps              | 32000 (alt.<br>16000)             | 32000 (alt.<br>16000) | 27200 or<br>24000 (alt.<br>13600 or<br>12000) | 25600 (alt.<br>12800) | 25600 (alt.<br>12800) | 25600 (alt.<br>12800) | 32000 (alt.<br>16000) | 33600 (alt.<br>16800) |
|         | AMD/UM<br>header, b    | D/TrD PDU<br>it        | 16                                | 8                     | 8                                             | 16                    | 16                    | 16                    | 8                     | 0                     |
| MAC     | MAC hea                | der, bit               | 27                                | 3                     | 27 or 43                                      | 27                    | 27                    | 27                    | 3                     | 3                     |
|         | MAC mul                | tiplexing              |                                   |                       | 8                                             | logical chann         | el multiplexing       |                       |                       |                       |
| Layer 1 | TrCH type              |                        |                                   |                       |                                               | FAC                   | CH                    |                       |                       |                       |
|         |                        | TB sizes, bit 171, 363 |                                   |                       |                                               |                       |                       |                       |                       |                       |
|         | TFS                    | TF0, bits              | bits 0x171                        |                       |                                               |                       |                       |                       |                       |                       |
|         |                        | TF1, bits              |                                   |                       |                                               | 1x1                   |                       |                       |                       |                       |
|         |                        | TF2, bits              |                                   |                       |                                               | 2x1                   |                       |                       |                       |                       |
|         |                        | TF3, bits              | 1x363                             |                       |                                               |                       |                       |                       |                       |                       |
|         |                        | TF4, bits              |                                   | 3x171 (alt N/A)       |                                               |                       |                       |                       |                       |                       |
|         |                        | TF5, bits              |                                   |                       |                                               | 4x171 (a              | ılt. N/A)             |                       |                       |                       |
|         |                        | TF6, bits              |                                   |                       |                                               | 2x363 (a              | ılt. N/A)             |                       |                       |                       |
|         | TTI, ms                |                        |                                   |                       |                                               | 20                    |                       |                       |                       |                       |
|         |                        | Coding type TC         |                                   |                       |                                               |                       |                       |                       |                       |                       |
|         | CRC, bit               |                        | 16                                |                       |                                               |                       |                       |                       |                       |                       |
|         | Max number of          |                        |                                   | 2286 (alt. 1149)      |                                               |                       |                       |                       |                       |                       |
|         | bits/TTI after channel |                        |                                   |                       |                                               |                       |                       |                       |                       |                       |
|         | coding                 |                        |                                   |                       |                                               |                       |                       |                       |                       |                       |
|         | Max number of          |                        |                                   |                       |                                               | 1143 (a               | lt. 575)              |                       |                       |                       |
|         | bits/radio             |                        |                                   |                       |                                               |                       |                       |                       |                       |                       |
|         |                        | te matching            | <u></u>                           |                       |                                               |                       |                       |                       |                       |                       |
| NOTE:   | MAC hea                | ider size and          | RLC payload :                     | size depend oi        | n use of U-RN                                 | II or C-RNTI.         |                       |                       |                       |                       |

# 6.10.3.4.2.1.2.1.5 TFCS for FACH

# 6.10.3.4.2.1.2.1.5.1 TFCS for FACH transport channel configuration without DTCH

| TFCS size | 5 (alt. 3)                                                                 |
|-----------|----------------------------------------------------------------------------|
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

# 6.10.3.4.2.1.2.1.5.2 TFCS for FACH transport channel configuration with DTCH

| TFCS size | 7 (alt. 4)                                                                                      |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4), (TF5), (TF6) (alt. FACH = (TF0), (TF1), (TF2), (TF3)) |

# 6.10.3.4.2.1.2.2 Physical channel parameters

# 6.10.3.4.2.1.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Midamble                             | 256 chips                     |
|-------|--------------------------------------|-------------------------------|
|       | Codes and time slots                 | SF16 x 8 codes x 2 time slots |
|       | Max. Number of data bits/radio frame | 4400 bits                     |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.44                          |

#### 6.10.3.4.2.1.2.2.2 Physical channel parameters for SCCPCH

# 6.10.3.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

| SCCPCH | Midamble                             | 512 chips                                                     |
|--------|--------------------------------------|---------------------------------------------------------------|
|        | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time |
|        |                                      | slot)                                                         |
|        | Max. Number of data bits/radio frame | 1204 bits (alt. 480 bits)                                     |
|        | TFCI code word                       | 16 bits (alt. 8 bits)                                         |
|        | Puncturing Limit                     | 1 (alt. 0.84)                                                 |

#### 6.10.3.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

| SCCPCH | Midamble                             | 512 chips                     |
|--------|--------------------------------------|-------------------------------|
|        | Codes and time slots                 | SF16 x 5 codes x 1 time slot  |
|        |                                      | (alt. SF16 x 2 codes x 1 time |
|        |                                      | slot)                         |
|        | Max. Number of data bits/radio frame | 1204 bits (alt. 472 bits)     |
|        | TFCI code word                       | 16 bits                       |
|        | Puncturing Limit                     | 1 (alt. 0.80)                 |

6.10.3.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

# 6.10.3.4.2.2.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.2.2 Downlink

6.10.3.4.2.2.2.1 Transport channel parameters

6.10.3.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher<br>Layer | RAB/Signalling RB                                             | RAB                | SRB#5   |
|-----------------|---------------------------------------------------------------|--------------------|---------|
| RLC             | Logical channel type                                          | DTCH               | SHCCH   |
|                 | RLC mode                                                      | AM                 | UM      |
|                 | Payload sizes, bit                                            | 320                | 160     |
|                 | Max data rate, bps                                            | 384000             | 16000   |
|                 | AMD/UMD PDU header, bit                                       | 16                 | 8       |
| MAC             | MAC header, bit                                               | 1                  | 1       |
|                 | MAC multiplexing                                              | N/A                | N/A     |
| Layer 1         | TrCH type                                                     | DSCH               | DSCH    |
| '               | TB sizes, bit                                                 | 337                | 169     |
|                 | TFS TF0, bits                                                 | 0x337              | 0x169   |
|                 | TF1, bits                                                     | 1x337              | 1x169   |
|                 | TF2, bits                                                     | 2x337              | N/A     |
|                 | TF3, bits                                                     | 4x337              | N/A     |
|                 | TF4, bits                                                     | 8x337              | N/A     |
|                 | TF5, bits                                                     | 12x337             | N/A     |
|                 | TF6, bits                                                     | N/A (alt. 16x337)  | N/A     |
|                 | TF7, bits                                                     | N/A (alt. 20x337)  | N/A     |
|                 | TF8, bits                                                     | N/A (alt. 24x337)  | N/A     |
|                 | TTI, ms                                                       | 10 (alt. 20)       | 10      |
|                 | Coding type                                                   | TC                 | CC 1/2  |
|                 | CRC, bit                                                      | 16                 | 16      |
| Î               | Max number of bits/TTI after channel coding                   | 12720 (alt. 25440) | 386     |
|                 | Downlink: Max number of bits/radio frame before rate matching | 12720 (alt. 12720) | 386     |
|                 | RM attribute                                                  | 135-175            | 230-250 |

# 6.10.3.4.2.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2

# 6.10.3.4.2.2.2.1.3 TFCS for DSCH

| TFCS size | 24 (alt. 36)                                                                                     |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS      | (384 kbps RAB, SHCCH, SRBs for DCCH)=                                                            |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,       |
|           | TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1,        |
|           | TF0), (TF5, TF1, TF0), (TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1),            |
|           | (TF4, TF0, TF1), (TF5, TF0, TF1),                                                                |
|           | (TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,            |
|           | TF1, TF1)                                                                                        |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, |
|           | TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1,        |
|           | TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0),       |
|           | (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3,       |
|           | TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0,        |
|           | TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),       |
|           | (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1))                              |

6.10.3.4.2.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.2.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.10.3.4.2.2.2.2 Physical channel parameters

6.10.3.4.2.2.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Midamble                             | 256 chips                     |
|-------|--------------------------------------|-------------------------------|
|       | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|       | Max. Number of data bits/radio frame | 6608 bits (alt. 6592 bits)    |
|       | TFCI code word                       | 16 bits (alt. 32 bits)        |
|       | Puncturing Limit                     | 0.48                          |

6.10.3.4.2.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.

6.10.3.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.3.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.3.2 Downlink

6.10.3.4.2.3.2.1 Transport channel parameters

6.10.3.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher  | RAB/Signalling RB                           | RAB                  | SRB#5   |
|---------|---------------------------------------------|----------------------|---------|
| Layer   |                                             |                      |         |
| RLC     | Logical channel type                        | DTCH                 | SHCCH   |
|         | RLC mode                                    | AM                   | UM      |
|         | Payload sizes, bit                          | 640                  | 160     |
|         | Max data rate, bps                          | 2048000              | 16000   |
|         | AMD/UMD PDU header, bit                     | 16                   | 8       |
| MAC     | MAC header, bit                             | 1                    | 1       |
|         | MAC multiplexing                            | N/A                  | N/A     |
| Layer 1 | TrCH type                                   | DSCH                 | DSCH    |
|         | TB sizes, bit                               | 657                  | 169     |
|         | TFS TF0, bits                               | 0x657                | 0x169   |
|         | TF1, bits                                   | 1x657                | 1x169   |
|         | TF2, bits                                   | 2x657                | N/A     |
|         | TF3, bits                                   | 4x657                | N/A     |
|         | TF4, bits                                   | 8x657                | N/A     |
|         | TF5, bits                                   | 12x657               | N/A     |
|         | TF6, bits                                   | 16x657               | N/A     |
|         | TF7, bits                                   | 20x657               | N/A     |
|         | TF8, bits                                   | 24x657               | N/A     |
|         | TF9, bits                                   | 28x657               | N/A     |
|         | TF10, bits                                  | 30x657 (alt. 32x657) | N/A     |
|         | TF11, bits                                  | N/A (alt. 36x657)    | N/A     |
|         | TF12, bits                                  | N/A (alt. 40x657)    | N/A     |
|         | TF13, bits                                  | N/A (alt. 44x657)    | N/A     |
|         | TF14, bits                                  | N/A (alt. 48x657)    | N/A     |
|         | TF15, bits                                  | N/A (alt. 52x657)    | N/A     |
|         | TF16, bits                                  | N/A (alt. 56x657)    | N/A     |
|         | TF17, bits                                  | N/A (alt. 60x657)    | N/A     |
|         | TF18, bits                                  | N/A (alt. 64x657)    | N/A     |
|         | TTI, ms                                     | 10 (alt. 20)         | 10      |
|         | Coding type                                 | TC                   | CC 1/2  |
|         | CRC, bit                                    | 16                   | 16      |
|         | Max number of bits/TTI after channel coding | 60624 (alt. 129330)  | 386     |
|         | Downlink: Max number of bits/radio frame    | 60624 (alt. 64665)   | 386     |
|         | before rate matching                        | ·                    |         |
|         | RM attribute                                | 135-175              | 230-250 |

6.10.3.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2

# 6.10.3.4.2.3.2.1.3 TFCS for DSCH

| TFCS size | 41 (alt.76)                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS      | (2048 kbps RAB, SHCCH, SRBs for DCCH)=                                                           |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,       |
|           | TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0,       |
|           | TF0),                                                                                            |
|           | (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5,       |
|           | TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF0, TF0,        |
|           | TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),       |
|           | (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1),                              |
|           | (TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,            |
|           | TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1)                    |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, |
|           | TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0,       |
|           | TF0),(TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0), (TF15, TF0,         |
|           | TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0),                                      |
|           | (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5,       |
|           | TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF10, TF1,       |
|           | TF0),(TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0), (TF15, TF1,         |
|           | TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),    |
|           | (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7,       |
|           | TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF10, TF0, TF1), (TF11, TF0, TF1), (TF12, TF0,     |
|           | TF1), (TF13, TF0, TF1), (TF14, TF0, TF1), (TF15, TF0, TF1), (TF16, TF0, TF1), (TF17, TF0,        |
|           | TF1), (TF18, TF0, TF1),                                                                          |
|           | (TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,            |
|           | TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1), (TF10, TF1,       |
|           | TF1),(TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1), (TF15, TF1,         |
|           | TF1), (TF16, TF1, TF1), (TF17, TF1, TF1), (TF18, TF1, TF1))                                      |

6.10.3.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.2.1.2.1.4.1.

6.10.3.4.2.3.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.45.1.

6.10.3.4.2.3.2.2 Physical channel parameters

6.10.3.4.2.3.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Midamble                             | 256 chips                       |  |
|-------|--------------------------------------|---------------------------------|--|
|       | Codes and time slots                 | SF16 x 12 codes x 11 time slots |  |
|       | Max. Number of data bits/radio frame | 36400 bits                      |  |
|       | TFCI code word                       | 32 bits                         |  |
|       | Puncturing Limit                     | 0.56 (alt. 0.52)                |  |

6.10.3.4.2.3.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1

6.10.3.4.2.4 Interactive or background / UL: 384 DL: 2048 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.4.1 Uplink

6.10.3.4.2.4.1.1 Transport channel parameters

6.10.3.4.2.4.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB                  | SRB#5   |
|-----------------|-----------------------------------------------------|----------------------|---------|
| RLC             | Logical channel type                                | DTCH                 | SHCCH   |
|                 | RLC mode                                            | AM                   | TM      |
|                 | Payload sizes, bit                                  | 320 (alt. 128)       | 168     |
|                 | Max data rate, bps                                  | 384000               | 16800   |
|                 | AMD/TrD PDU header, bit                             | 16                   | 0       |
| MAC             | MAC header, bit                                     | 1                    | 1       |
|                 | MAC multiplexing                                    | N/A                  | N/A     |
| Layer 1         | TrCH type                                           | USCH                 | USCH    |
|                 | TB sizes, bit                                       | 337 (alt. 145)       | 169     |
|                 | TFS TF0, bits                                       | 0x337 (alt. 0x145)   | 0x169   |
|                 | TF1, bits                                           | 1x337 (alt. 1x145)   | 1x169   |
|                 | TF2, bits                                           | 2x337 (alt. 5x145)   | N/A     |
|                 | TF3, bits                                           | 4x337 (alt. 10x145)  | N/A     |
|                 | TF4, bits                                           | 8x337 (alt. 20x145)  | N/A     |
|                 | TF5, bits                                           | 12x337 (alt. 30x145) | N/A     |
|                 | TF6, bits                                           | 16x337 (alt. 40x145) | N/A     |
|                 | TF7, bits                                           | 20x337 (alt. 50x145) | N/A     |
|                 | TF8, bits                                           | 24x337 (alt. 60x145) | N/A     |
|                 | TTI, ms                                             | 20                   | 10      |
|                 | Coding type                                         | TC                   | CC 1/2  |
| Î               | CRC, bit                                            | 16                   | 16      |
| Ì               | Max number of bits/TTI after channel coding         | 25440 (alt. 29004)   | 386     |
|                 | Max number of bits/radio frame before rate matching | 12720 (alt. 14502)   | 386     |
|                 | RM attribute                                        | 135-175              | 230-250 |

6.10.3.4.2.4.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2

6.10.3.4.2.4.1.1.3 TFCS for USCH

| TFCS size | 36                                                                                             |
|-----------|------------------------------------------------------------------------------------------------|
| TFCS      | (384 kbps RAB, SHCCH, SRBs for DCCH)=                                                          |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,     |
|           | TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1,      |
|           | TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0),     |
|           | (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3,     |
|           | TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1) |
|           | (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,     |
|           | TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1)                                   |

6.10.3.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4

#### 6.10.3.4.2.4.1.2 Physical channel parameters

#### 6.10.3.4.2.4.1.2.1 Physical channel parameters for PUSCH

| PUSCH Midamble |                                      | 512 chips                   |
|----------------|--------------------------------------|-----------------------------|
|                | Codes and time slots                 | SF1 x 1 code x 2 time slots |
|                | Max. Number of data bits/radio frame | 7264 bits                   |
|                | TFCI code word                       | 32 bits                     |
|                | TPC                                  | 2 bits                      |
|                | Puncturing Limit                     | 0.52 (alt. 0.44)            |

6.10.3.4.2.4.1.2.2 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2

6.10.3.4.2.4.2 Downlink

6.10.3.4.2.4.2.1 Transport channel parameters

See clause 6.10.3.4.2.3.2.1

6.10.3.4.2.4.2.2 Physical channel parameters

6.10.3.4.2.4.2.2.1 Physical channel parameters for PDSCH

| PDSCH Midamble |                                      | 256 chips                    |  |
|----------------|--------------------------------------|------------------------------|--|
|                | Codes and time slots                 | SF1 x 1 codes x 9 time slots |  |
|                | Max. Number of data bits/radio frame | 39712 bits                   |  |
|                | TFCI code word                       | 32 bits                      |  |
|                | Puncturing Limit                     | 0.64 (alt. 0.60)             |  |

6.10.3.4.2.4.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1

6.10.3.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.10.3.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH SHCCH and BCCH

6.10.3.4.3.1.1 Uplink

6.10.3.4.3.1.1.1 Transport channel parameters

6.10.3.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

#### 6.10.3.4.3.1.1.5 TFCS for USCH

| TFCS size | 10                                                                                              |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (64 kbps RAB, SHCCH)=                                                                           |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), |
|           | (TF3, TF1), (TF4, TF1)                                                                          |

# 6.10.3.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

| Higher<br>layer                                     | RAB/signalling RB                           | SRB#0           | SRB#5           |  |
|-----------------------------------------------------|---------------------------------------------|-----------------|-----------------|--|
| _                                                   | User of Radio Bearer                        | RRC             | RRC             |  |
| RLC                                                 | Logical channel type                        | CCCH            | SHCCH           |  |
|                                                     | RLC mode                                    | TM              | TM              |  |
|                                                     | Payload sizes, bit                          | 168             | 168             |  |
|                                                     | Max data rate, bps                          | 16800           | 16800           |  |
|                                                     | TrD PDU header, bit                         | 0               | 0               |  |
| MAC                                                 | MAC header, bit                             | 2               | 2               |  |
|                                                     | MAC multiplexing                            | 2 logical chann | el multiplexing |  |
| Layer 1                                             | TrCH type                                   | RAG             | CH              |  |
|                                                     | TB sizes, bit                               | 17              | 0               |  |
|                                                     | TFS TF0, bits                               | 1x1             | 70              |  |
|                                                     | TTI, ms                                     | 10              | 10              |  |
|                                                     | Coding type                                 | CC 1/2          |                 |  |
|                                                     | CRC, bit                                    |                 | 16              |  |
|                                                     | Max number of bits/TTI after channel coding | 388             |                 |  |
| Max number of bits/radio frame before rate matching |                                             | 38              | 88              |  |

6.10.3.4.3.1.1.2 Physical channel parameters

6.10.3.4.3.1.1.2.1 Physical channel parameters for DPCH

See clause 6.10.3.4.1.4.1.2.

6.10.3.4.3.1.1.2.2 Physical channel parameters for PUSCH

| PUSCH | Midamble                             | 512 chips                  |  |
|-------|--------------------------------------|----------------------------|--|
|       | Codes and time slots                 | SF2 x 1 code x 1 time slot |  |
|       | Max. Number of data bits/radio frame | 1808 bits                  |  |
|       | TFCI code word                       | 16 bits                    |  |
|       | TPC                                  | 2 bits                     |  |
|       | Puncturing Limit                     | 0.76 (alt. 0.68)           |  |

# 6.10.3.4.3.1.1.2.3 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2.

6.10.3.4.3.1.2 Downlink

6.10.3.4.3.1.2.1 Transport channel parameters

6.10.3.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

# 6.10.3.4.3.1.2.1.5 TFCS for DSCH

| TFCS size | 10 (alt. 14)                                                                                    |  |  |
|-----------|-------------------------------------------------------------------------------------------------|--|--|
| TFCS      | (256 kbps RAB, SHCCH)=                                                                          |  |  |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), |  |  |
|           | (TF3, TF1), (TF4, TF1)                                                                          |  |  |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF0, |  |  |
|           | TE1), (TE1, TE1), (TE2, TE1), (TE3, TE1), (TE4, TE1), (TE5, TE1), (TE6, TE1))                   |  |  |

# 6.10.3.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| Higher  | RAB/Sigi             | nalling RB              | SRB#0                          | SRB#5              | SRB#6              |
|---------|----------------------|-------------------------|--------------------------------|--------------------|--------------------|
| layer   | User of F            | Radio Bearer            | RRC                            | RRC                | RRC                |
| RLC     | Logical c            | hannel type             | CCCH                           | SHCCH              | BCCH               |
|         | RLC mod              | de                      | UM                             | UM                 | TM                 |
|         | Payload              | sizes, bit              | 160                            | 160                | 168                |
|         |                      | a rate, bps             | 32000 (alt. 16000)             | 32000 (alt. 16000) | 33600 (alt. 16800) |
|         | UMD/TrD              | PDU header, bit         | 8                              | 8                  | 0                  |
| MAC     | MAC hea              | ader, bit               | 3                              |                    |                    |
|         | MAC multiplexing     |                         | 3 logical channel multiplexing |                    |                    |
|         | TrCH typ             | е                       | FACH                           |                    |                    |
|         | TB sizes             | ·                       | 171                            |                    |                    |
|         |                      | TF0, bits               | 0x171                          |                    |                    |
|         |                      | TF1, bits               | 1x171                          |                    |                    |
|         | TFS                  | TF2, bits               | 2x171                          |                    |                    |
| Layer 1 |                      | TF3, bits               | 3x171 (alt. N/A)               |                    |                    |
|         |                      | TF4, bits               | 4x171 (alt. N/A)               |                    |                    |
|         | TTI, ms              |                         | 20                             |                    |                    |
|         | Coding ty            |                         | TC                             |                    |                    |
|         | CRC, bit             |                         | 16                             |                    |                    |
|         |                      | ber of bits/TTI after   | 2256 (alt. 1134)               |                    |                    |
|         | channel of           |                         |                                |                    |                    |
|         |                      | ber of bits/radio frame | 1128 (alt 567)                 |                    |                    |
|         | before rate matching |                         |                                |                    |                    |

#### 6.10.3.4.3.1.2.1.7 TFCS for FACH

| TFCS size | 5 (alt. 3)                                                                 |
|-----------|----------------------------------------------------------------------------|
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

6.10.3.4.3.1.2.2 Physical channel parameters

6.10.3.4.3.1.2.2.1 Physical channel parameters for DPCH

Seeclause 6.10.3.4.1.4.2.2.

# 6.10.3.4.3.1.2.2.2 Physical channel parameters for PDSCH

| PDSCH | Midamble                             | 256 chips                     |  |
|-------|--------------------------------------|-------------------------------|--|
|       | Codes and time slots                 | SF16 x 8 codes x 2 time slots |  |
|       | Max. Number of data bits/radio frame | 4400 bits                     |  |
|       | TFCI code word                       | 16 bits                       |  |
|       | Puncturing Limit                     | 0.48                          |  |

6.10.3.4.3.1.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.10.3.4.3.2.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.2.2 Downlink

6.10.3.4.3.2.2.1 Transport channel parameters

6.10.3.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

#### 6.10.3.4.3.2.2.1.5 TFCS for DSCH

| TFCS size | 12 (alt. 18)                                                                                    |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (384 kbps RAB, SHCCH)=                                                                          |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),                         |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)                          |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, |
|           | TF0), (TF8, TF0),                                                                               |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1))                                                                                     |

6.10.3.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.2.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.2.2.2 Physical channel parameters

6.10.3.4.3.2.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

#### 6.10.3.4.3.2.2.2.2 Physical channel parameters for PDSCH

| PDSCH | Midamble                             | 256 chips                     |
|-------|--------------------------------------|-------------------------------|
|       | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|       | Max. Number of data bits/radio frame | 6608 bits                     |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.48                          |

6.10.3.4.3.2.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.10.3.4.3.3.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.3.2 Downlink

6.10.3.4.3.3.2.1 Transport channel parameters

6.10.3.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.3.2.1.1.

#### 6.10.3.4.3.3.2.1.5 TFCS for DSCH

| TFCS size | 22 (alt. 38)                                                                                    |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (2048 kbps RAB, SHCCH)=                                                                         |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), |
|           | (TF8, TF0), (TF9, TF0), (TF10, TF0),                                                            |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1), (TF9, TF1)                                                                          |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, |
|           | TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),  |
|           | (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),                                             |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, |
|           | TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1))                                                    |

6.10.3.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.3.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.3.2.2 Physical channel parameters

6.10.3.4.3.3.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

#### 6.10.3.4.3.3.2.2.2 Physical channel parameters for PDSCH

| DPCH Downlink | Midamble                             | 256 chips                  |
|---------------|--------------------------------------|----------------------------|
|               | Codes and time slots                 | SF1 x 1 code x 7 time slot |
|               | Max. Number of data bits/radio frame | 30896 bits (alt. 30880)    |
|               | TFCI code word                       | 16 bits (alt. 32 bits)     |
|               | Puncturing limit                     | 0.48 (alt. 0.44)           |

6.10.3.4.3.3.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

| 6.10.3.4.4 | Combinations of | on SCCPCH |
|------------|-----------------|-----------|
| 0.10.0.7.7 | Combinations C  |           |

6.10.3.4.4.1 Stand-alone signalling RB for PCCH

6.10.3.4.4.1.1 Transport channel parameters

#### 6.10.3.4.4.1.1.1 Transport channel parameter of SRB for PCCH

| Higher layer | RAB/signalling RB    | SRB           |
|--------------|----------------------|---------------|
|              | User of Radio Bearer | RRC           |
| RLC          | Logical channel type | PCCH          |
|              | RLC mode             | TM            |
|              | Payload sizes, bit   | 240 (alt. 80) |

|         | Max data rate, bps          |                         | 12000 (alt. 8000) |
|---------|-----------------------------|-------------------------|-------------------|
|         | TrD PDU header, bit         |                         | 0                 |
| MAC     | MAC header, bi              | t                       | 0                 |
|         | MAC multiplexing            | ng                      | N/A               |
| Layer 1 | TrCH type                   |                         | PCH               |
|         | TB sizes, bit               |                         | 240 (alt. 80)     |
|         | TFS                         | TF0, bts                | 0x240 (alt. 0x80) |
|         |                             | TF1, bits               | 1x240 (alt. 1x80) |
|         |                             | TF2, bits               | N/A (alt.2x80)    |
|         | TTI, ms                     |                         | 20                |
|         | Coding type                 |                         | CC 1/2            |
|         | CRC, bit                    |                         | 16                |
|         | Max number of matching      | bits/TTI before rate    | 528 (alt. 400)    |
|         | Max number of rate matching | bits/radio frame before | 264 (alt. 200)    |
|         | RM attribute                |                         | 210-250           |

#### 6.10.3.4.4.1.1.2 TFCS

| TFCS size | 2 (alt. 3)                                              |
|-----------|---------------------------------------------------------|
| TFCS      | SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2)) |

### 6.10.3.4.4.1.2 Physical channel parameters

| S-CCPCH | Midamble                             | 512 chips                    |
|---------|--------------------------------------|------------------------------|
|         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|         |                                      | (alt. SF16 x 1 code x 1 time |
|         |                                      | slot)                        |
|         | Max. Number of data bits/radio frame | 480 bits (alt. 236 bits)     |
|         | TFCI code word                       | 8 bits                       |
|         | Puncturing limit                     | 1                            |

6.10.3.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

#### 6.10.3.4.4.2.1 Transport channel parameters

#### 6.10.3.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

| Higher  | RAB/signalling RB                           |                                 | RAB                         |  |  |
|---------|---------------------------------------------|---------------------------------|-----------------------------|--|--|
| layer   | User of Radio Bearer                        |                                 | Interactive/ Background RAB |  |  |
| RLC     | Logical chan                                | inel type                       | DTCH                        |  |  |
|         | RLC mode                                    |                                 | AM                          |  |  |
|         | Payload size                                | es, bit                         | 320                         |  |  |
|         | Max data rat                                | te, bps                         | 32000 (alt. 16000)          |  |  |
|         | AMD PDU h                                   | eader, bit                      | 16                          |  |  |
| MAC     | MAC header                                  | r, bit                          | 27                          |  |  |
| IVIAC   | MAC multiple                                | exing                           | N/A                         |  |  |
| Layer 1 | TrCH type                                   |                                 | FACH                        |  |  |
|         | TB sizes, bit                               |                                 | 363                         |  |  |
|         |                                             | TF0, bits                       | 0 x363                      |  |  |
|         | TFS                                         | TF1, bits                       | 1x363                       |  |  |
|         |                                             | TF2, bits                       | 2x363 (alt. N/A)            |  |  |
|         | TTI, ms                                     |                                 | 20                          |  |  |
|         | Coding type                                 |                                 | TC                          |  |  |
|         | CRC, bit                                    |                                 | 16                          |  |  |
|         | Max number of bits/TTI before rate matching |                                 | 2286 (alt. 1149)            |  |  |
|         |                                             | of bits/radio frame before rate | 1143 (alt. 575)             |  |  |
|         | matching                                    |                                 |                             |  |  |
|         | RM attribute                                |                                 | 110-150                     |  |  |

### 6.10.3.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| Higher  | RAB/signalling RB  |                | SRB#0                          | SRB#1                                         | SRB#2                 | SRB#3                 | SRB#4                 | SRB#5                 |
|---------|--------------------|----------------|--------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| layer   | User of Radio      | o Bearer       | RRC                            | RRC                                           | RRC                   | NAS_DT<br>High prio   | NAS_DT<br>Low prio    | RRC                   |
| RLC     | Logical chan       | nel type       | CCCH                           | DCCH                                          | DCCH                  | DCCH                  | DCCH                  | BCCH                  |
|         | RLC mode           |                | UM                             | UM                                            | AM                    | AM                    | AM                    | TM                    |
|         | Payload size       | s, bit         | 160                            | 136 or 120<br>(note)                          | 128                   | 128                   | 128                   | 168                   |
|         | Max data rate, bps |                | 32000 (alt.<br>16000)          | 27200 or<br>24000 (alt.<br>24000 or<br>12000) | 25600 (alt.<br>12800) | 25600 (alt.<br>12800) | 25600 (alt.<br>12800) | 33600 (alt.<br>16800) |
|         | AMD/UMD/T bit      | rD PDU header, | 8                              | 8                                             | 16                    | 16                    | 16                    | 0                     |
| MAC     | MAC header, bit    |                | 3                              | 27 or 43                                      | 27                    | 27                    | 27                    | 3                     |
| IVIAC   | MAC multiplexing   |                | 6 logical channel multiplexing |                                               |                       |                       |                       |                       |
| Layer 1 | TrCH type          |                | FACH                           |                                               |                       |                       |                       |                       |
|         | TB sizes, bit      |                | 171                            |                                               |                       |                       |                       |                       |
|         |                    | TF0, bits      |                                |                                               | 0x1                   | 71                    |                       |                       |
|         |                    | TF1, bits      | 1x171                          |                                               |                       |                       |                       |                       |
|         |                    | TF2, bits      | 2x171                          |                                               |                       |                       |                       |                       |
|         | TFS TF             | TF3, bits      |                                | 3x171 (alt. N/A)                              |                       |                       |                       |                       |
|         | TF4, bits          |                | 4x171 (alt. N/A)               |                                               |                       |                       |                       |                       |
|         |                    |                |                                |                                               |                       |                       |                       |                       |

| TTI, ms                                             | 20                                                                      |  |  |
|-----------------------------------------------------|-------------------------------------------------------------------------|--|--|
| Coding type                                         | TC                                                                      |  |  |
| CRC, bit                                            | 16                                                                      |  |  |
| Max number of bits/TTI before                       | 2256 (alt. 1134)                                                        |  |  |
| rate matching                                       |                                                                         |  |  |
| Max number of bits/radio frame before rate matching | 1128 (alt.567)                                                          |  |  |
| RM attribute                                        | 200-240                                                                 |  |  |
| NOTE: MAC header size and RLC paylo                 | MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |  |  |

#### 6.10.3.4.4.2.1.3 TFCS

| TFCS size | 9 (alt. 4)                                                                                     |
|-----------|------------------------------------------------------------------------------------------------|
| TFCS      | (32kbps RAB, SRBs for CCCH/DCCH/BCCH) =                                                        |
|           | (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4),(TF1, TF0), (TF1, TF1), (TF1, TF2), |
|           | (TF2, TF0)                                                                                     |
|           | (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2),                                                      |
|           | (TF1, TF0))                                                                                    |

Note: First TFCS applies when the alternative for the 32kbps RAB and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32kbps RAB and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid.

#### 6.10.3.4.4.2.2 Physical channel parameters

| S-CCPCH | Midamble                       | 512 chips                     |
|---------|--------------------------------|-------------------------------|
|         | Codes and time slots           | SF16 x 5 codes x 1 time       |
|         | Codos and time siets           | slot (alt. SF16 x 2 codes x 1 |
|         |                                | time slot)                    |
|         | Max. Number of data bits/radio | 1204 bits (alt. 472)          |
|         | frame                          |                               |
|         | TFCI code word                 | 16 bits                       |
|         | Puncturing limit               | 0.60 (alt. 0.48)              |

6.10.3.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2a.1 Transport channel parameters

6.10.3.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

| Higher  | RAB/Sigr                                            | nalling RB    | RAB                        | RAB                        |
|---------|-----------------------------------------------------|---------------|----------------------------|----------------------------|
| Layer   | User of F                                           | Radio Bearer  | Interactive/Background RAB | Interactive/Background RAB |
| RLC     | Logical c                                           | hannel type   | DTCH                       | DTCH                       |
|         | RLC mod                                             | de            | AM                         | AM                         |
|         | Payload                                             | sizes, bit    | 320                        | 320                        |
|         | Max data                                            | rate, bps     | 32000 (alt. 16000)         | 32000 (alt. 16000)         |
|         | AMD PD                                              | U header, bit | 16                         | 16                         |
| MAC     | MAC hea                                             | der, bit      | 27                         | 27                         |
|         | MAC mu                                              | Itiplexing    | 2 logical chann            | nel multiplexing           |
| Layer 1 | yer 1 TrCH type TB sizes, bit                       |               | FACH                       |                            |
|         |                                                     |               | 363                        |                            |
|         | TFS                                                 | TF0, bits     | 0x3                        | 363                        |
|         |                                                     | TF1, bits     | 1x3                        | 363                        |
|         |                                                     | TF2, bits     | 2x363 (                    | alt. N/A)                  |
|         | TTI, ms                                             |               | 20                         |                            |
|         | Coding ty                                           | /pe           | TC                         |                            |
|         | CRC, bit                                            |               | 16                         |                            |
|         | Max number of bits/TTI before rate                  |               | 2286 (alt. 1149)           |                            |
|         | matching                                            |               |                            |                            |
|         | Max number of bits/radio frame before rate matching |               | 1143 (a                    | alt. 575)                  |
|         |                                                     |               |                            |                            |
|         | RM attrib                                           | ute           | 110                        | - 150                      |

6.10.3.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2

#### 6.10.3.4.4.2a.1.3 TFCS

| TFCS size        | 9 (alt. 4)                                                                                                 |  |  |  |
|------------------|------------------------------------------------------------------------------------------------------------|--|--|--|
| TFCS             | (32kbps RAB + 32kbps RAB, SRBs for CCCH/DCCH/BCCH) =                                                       |  |  |  |
|                  | (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2),            |  |  |  |
|                  | (TF2, TF0)                                                                                                 |  |  |  |
|                  | (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0))                                                      |  |  |  |
| Note: First TFC  | S applies when the alternative for the 32kbps RABs and the alternative for the SRBs for                    |  |  |  |
| CCCH/DCCH/E      | CH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32kbps RABs and the |  |  |  |
| alt, for the SRB | s for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid.           |  |  |  |

#### 6.10.3.4.4.2a.2 Physical channel parameters

| S-CCPCH | Midamble                             | 512 chips                           |
|---------|--------------------------------------|-------------------------------------|
|         | Codes and time slots                 | SF16 x 5 codes x 1 time slot        |
|         |                                      | (alt. SF16 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1204 bits (alt. 472)                |
|         | TFCI code word                       | 16 bits                             |
|         | Puncturing limit                     | 0.60 (alt. 0.48)                    |

6.10.3.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2b.1 Transport channel parameters

6.10.3.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for

**BCCH** 

See clause 6.10.3.4.4.2.1.2

#### 6.10.3.4.4.2b.1.2 **TFCS**

| TFCS size | 5 (alt. 3)                                                   |
|-----------|--------------------------------------------------------------|
| TFCS      | (SRBs for CCCH/DCCH/BCCH) =                                  |
|           | (TF0), (TF1), (TF2), (TF3), (TF4) (alt. (TF0), (TF1), (TF2)) |

#### 6.10.3.4.4.2b.2 Physical channel parameters

| S-CCPCH Midamble |                                | 512 chips                   |
|------------------|--------------------------------|-----------------------------|
|                  | Codes and time slots           | SF16 x 5 codes x 1 time     |
|                  |                                | slot (alt. SF16 x 2 codes x |
|                  |                                | 1 time slot)                |
|                  | Max. Number of data bits/radio | 1204 bits (alt. 480 bits)   |
|                  | frame                          |                             |
|                  | TFCI code word                 | 16 bits (alt. 8 bits)       |
|                  | Puncturing limit               | 1 (alt. 0.84)               |

6.10.3.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for

DCCH + SRB for BCCH

6.10.3.4.4.3.1 Transport channel parameters

6.10.3.4.4.3.1.1 Transport channel parameters for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.1.

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for

See clause 6.10.3.4.4.2.1.2.

#### 6.10.3.4.4.3.1.4 **TFCS**

| TFCS size          | 30 (alt. 8)                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS               | (32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =                                                                                  |
|                    | (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF0, TF4), (TF0, TF0, TF0, TF0, TF0, TF0, TF0, TF0, |
|                    | TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF1, TF0,                                                 |
|                    | TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4),(TF1, TF1, TF0),                                                 |
|                    | (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4), (TF2, TF0, TF0), (TF2,                                                |
|                    | TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF1, TF0), (TF2, TF1, TF1),                                           |
|                    | (TF2, TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4)                                                                                         |
|                    | (alt. (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0,                                               |
|                    | TF2, TF0), (TF0, TF2, TF1), (TF1, TF0, TF0))                                                                                              |
|                    |                                                                                                                                           |
| Note: alt. TFCS ap | plies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all                                                      |

#### 6.10.3.4.4.3.2 Physical channel parameters

| S-CCPCH                                                               | Midamble                       | 512 chips                   |
|-----------------------------------------------------------------------|--------------------------------|-----------------------------|
|                                                                       | Codes and time slots           | SF16 x 8 codes x 1 time     |
|                                                                       |                                | slot (alt. SF16 x 2 codes x |
|                                                                       |                                | 1 time slot)                |
|                                                                       | Max. Number of data bits/radio | 1936 bits (alt. 472 bits)   |
|                                                                       | frame                          |                             |
|                                                                       | TFCI code word                 | 16 bits                     |
|                                                                       | Puncturing limit               | 0.52 (alt. 0.56)            |
| Note: Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/ |                                |                             |

BCCH are both configured.

6.10.3.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3a.1 Transport channel parameters

6.10.3.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

#### 6.10.3.4.4.3a.1.3 TFCS

| TFCS size       | 10 (alt.7)                                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------|
| TFCS            | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =                                                     |
|                 | (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), |
|                 | (TF1, TF3), (TF1, TF4)                                                                          |
|                 | (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0), (TF2, TF1))       |
| Note: alt. TFCS | S applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.         |

#### 6.10.3.4.4.3a.2 Physical channel parameters

| S-CCPCH                                                                  | Midamble                             | 512 chips                     |
|--------------------------------------------------------------------------|--------------------------------------|-------------------------------|
|                                                                          | Codes and time slots                 | SF16 x 5 codes x 1 time slot  |
|                                                                          |                                      | (alt. SF16 x 2 codes x 1 time |
|                                                                          |                                      | slot)                         |
|                                                                          | Max. Number of data bits/radio frame | 1204 bits (alt. 480 bits)     |
|                                                                          | TFCI code word                       | 16 bits (alt. 8 bits)         |
|                                                                          | Puncturing limit                     | 0.84 (alt. 0.84)              |
| Note: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured. |                                      |                               |

6.10.3.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

#### 6.10.3.4.4.4.1 Transport channel parameters

#### 6.10.3.4.4.4.1.1 Transport channel parameters of RB for CTCH

| Higher layer       | RAB/signallin                      | g RB      | N/A     |
|--------------------|------------------------------------|-----------|---------|
| User of Radio Bear |                                    |           | BMC     |
| RLC                | Logical chann                      | nel type  | CTCH    |
|                    | RLC mode                           |           | UM      |
|                    | Payload sizes                      | s, bit    | 152     |
|                    | Max data rate                      | e, bps    | 15200   |
|                    | UMD PDU he                         | ader, bit | 8       |
| MAC                | MAC header,                        | bit       | 3       |
|                    | MAC multiplexing                   |           | N/A     |
| Layer 1            | TrCH type                          |           | FACH    |
|                    | TB sizes, bit                      |           | 163     |
|                    | TFS                                | TF0, bits | 0x163   |
|                    |                                    | TF1, bits | 1x163   |
|                    |                                    | TF2, bits | 2x163   |
|                    | TTI, ms                            |           | 20      |
|                    | Coding type                        |           | CC 1/3  |
|                    | CRC, bit                           |           | 16      |
|                    | Max number of bits/TTI before rate |           | 1098    |
|                    | matching                           |           |         |
|                    | Max number of bits/radio frame     |           | 549     |
|                    | before rate m                      | atching   |         |
|                    | RM attribute                       |           | 200-240 |

#### 6.10.3.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| Higher layer | RAB/signalling RB           |                  | SRB#0                          | SRB#5 |  |
|--------------|-----------------------------|------------------|--------------------------------|-------|--|
|              | User of Radio Bear          | er               | RRC                            | RRC   |  |
| RLC          | Logical channel typ         | е                | CCCH                           | BCCH  |  |
|              | RLC mode                    |                  | UM                             | TM    |  |
|              | Payload sizes, bit          |                  | 160                            | 168   |  |
|              | Max data rate, bps          |                  | 16000                          | 16800 |  |
|              | AMD/UMD/TrD PD              | U header, bit    | 8                              | 0     |  |
| MAC          | MAC header, bit             |                  | 3                              | 3     |  |
| IVIAC        | MAC multiplexing            |                  | 2 logical channel multiplexing |       |  |
| Layer 1      | TrCH type                   |                  | FACH                           |       |  |
|              | TB sizes, bit               |                  | 171                            |       |  |
|              |                             | TF0, bits        | 0x171                          |       |  |
|              | TFS                         | TF1, bits        | 1x171                          |       |  |
|              |                             | TF2, bits        | 2x171                          |       |  |
|              | TTI, ms                     |                  | 20                             |       |  |
|              | Coding type                 |                  | TC                             |       |  |
|              | CRC, bit                    |                  | 16                             |       |  |
|              | Max number of bits matching | /TTI before rate | 1134                           |       |  |

| Higher layer | RAB/signalling RB                                       | SRB#0   | SRB#5 |  |
|--------------|---------------------------------------------------------|---------|-------|--|
|              | User of Radio Bearer                                    | RRC RRC |       |  |
|              | Max number of bits/radio frame 567 before rate matching |         |       |  |
|              | RM attribute                                            | 200-240 |       |  |

#### 6.10.3.4.4.1.3 TFCS

| TFCS size | 4                                              |
|-----------|------------------------------------------------|
| TFCS      | (RB for CTCH, SRBs for CCCH/BCCH) =            |
|           | (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0) |

#### 6.10.3.4.4.4.2 Physical channel parameters

| S-CCPCH | Midamble                             | 512 chips                    |
|---------|--------------------------------------|------------------------------|
|         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 472 bits                     |
|         | TFCI code word                       | 16 bits                      |
|         | Puncturing limit                     | 0.80                         |

#### 6.10.3.4.5 Combinations on PRACH

6.10.3.4.5.1 SRB for CCCH + SRB for DCCH

6.10.3.4.5.1.1 Transport channel parameters

#### 6.10.3.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

| Higher  | RAB/signalling RB      | SRB#0                          | SRB#1 | SRB#2 | SRB#3         | SRB#4        |  |
|---------|------------------------|--------------------------------|-------|-------|---------------|--------------|--|
| layer   | User of Radio Bearer   | RRC                            | RRC   | RRC   | NAS_DT        | NAS_DT       |  |
|         |                        |                                |       |       | High priority | Low priority |  |
| RLC     | Logical channel type   | CCCH                           | DCCH  | DCCH  | DCCH          | DCCH         |  |
|         | RLC mode               | TM                             | UM    | AM    | AM            | AM           |  |
|         | Payload sizes, bit     | 168                            | 136   | 128   | 128           | 128          |  |
|         | Max data rate, bps     | 16800                          | 13600 | 12800 | 12800         | 12800        |  |
|         | AMD/UMD/TrD PDU        | 0                              | 8     | 16    | 16            | 16           |  |
|         | header, bit            |                                |       |       |               |              |  |
| MAC     | MAC header, bit        | 2                              | 26    | 26    | 26            | 26           |  |
|         | MAC multiplexing       | 5 logical channel multiplexing |       |       |               |              |  |
| Layer 1 | TrCH type              |                                |       | RACH  |               |              |  |
| -       | TB sizes, bit          |                                |       |       |               |              |  |
|         |                        |                                |       |       |               |              |  |
|         | TFS TF0, bits          | 1x170                          |       |       |               |              |  |
|         | TTI, ms                | 10                             |       |       |               |              |  |
|         | Coding type            | ng type CC 1/2                 |       |       |               |              |  |
|         | CRC, bit               | C, bit 16                      |       |       |               |              |  |
|         | Max number of          |                                |       | 388   |               |              |  |
|         | bits/TTI after channel |                                |       |       |               |              |  |
|         | coding                 |                                |       |       |               |              |  |
|         | Max number of          | 388                            |       |       |               |              |  |
|         | bits/Radio frame       |                                |       |       |               |              |  |
|         | before rate matching   |                                |       |       |               |              |  |

#### 6.10.3.4.5.1.1.2 TFCS

| TFCS size | 1                           |
|-----------|-----------------------------|
| TFCS      | SRBs for CCCH/ DCCH = (TF0) |

#### 6.10.3.4.5.1.2 Physical channel parameters

| PRACH | Midamble                             | 512 chips                    |
|-------|--------------------------------------|------------------------------|
|       | Codes and time slots                 | SF8 (alt. SF16) x 1 code x 1 |
|       |                                      | time slot                    |
|       | Max. Number of data bits/radio frame | 488 bits (alt. 244 bits)     |
|       | Puncturing Limit                     | 1.0 (alt. 0.60)              |

6.10.3.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

#### 6.10.3.4.5.2.1 Transport channel parameters

| Higher  | RAB/signalling RB                                          | RAB                               | SRB#0                          | SRB#1 | SRB#2 | SRB#3                   | SRB#4                  |  |
|---------|------------------------------------------------------------|-----------------------------------|--------------------------------|-------|-------|-------------------------|------------------------|--|
| layer   | User of Radio Bearer                                       | Interactive/<br>Background<br>RAB | RRC                            | RRC   | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |  |
| RLC     | Logical channel type                                       | DTCH                              | CCCH                           | DCCH  | DCCH  | DCCH                    | DCCH                   |  |
|         | RLC mode                                                   | AM                                | TM                             | UM    | AM    | AM                      | AM                     |  |
|         | Payload sizes, bit                                         | 128                               | 168                            | 136   | 128   | 128                     | 128                    |  |
|         | Max data rate, bps                                         | 12800                             | 16800                          | 13600 | 12800 | 12800                   | 12800                  |  |
|         | AMD/UMD/TrD PDU header, bit                                | 16                                | 0                              | 8     | 16    | 16                      | 16                     |  |
| MAC     | MAC header, bit                                            | 26                                | 2                              | 26    | 26    | 26                      | 26                     |  |
|         | MAC multiplexing                                           |                                   | 6 logical channel multiplexing |       |       |                         |                        |  |
| Layer 1 | TrCH type                                                  |                                   | RACH                           |       |       |                         |                        |  |
|         | TB sizes, bit                                              | izes, bit 170                     |                                |       |       |                         |                        |  |
|         | TFS TF0, bits                                              | 1x170                             |                                |       |       |                         |                        |  |
|         | TTI, ms                                                    | ΓI, ms 10                         |                                |       |       |                         |                        |  |
|         | Coding type                                                | CC 1/2                            |                                |       |       |                         |                        |  |
|         | CRC, bit                                                   | 16                                |                                |       |       |                         |                        |  |
|         | Max number of bits/TTI after channel coding                |                                   |                                | 38    | 88    |                         |                        |  |
|         | Max number of bits/<br>Radio frame before<br>rate matching |                                   |                                | 38    | 88    |                         |                        |  |

6.10.3.4.5.2.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

6.10.3.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

#### 6.10.3.4.5.3.1 Transport channel parameters

| Higher | RAB/signalling RB              | RAB                               | RAB                               | SRB#0     | SRB#1        | SRB#2    | SRB#3               | SRB#4              |
|--------|--------------------------------|-----------------------------------|-----------------------------------|-----------|--------------|----------|---------------------|--------------------|
| layer  | User of Radio<br>Bearer        | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC       | RRC          | RRC      | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC    | Logical channel type           | DTCH                              | DTCH                              | CCCH      | DCCH         | DCCH     | DCCH                | DCCH               |
|        | RLC mode                       | AM                                | AM                                | TM        | UM           | AM       | AM                  | AM                 |
|        | Payload sizes, bit             | 128                               | 128                               | 168       | 136          | 128      | 128                 | 128                |
|        | Max data rate, bps             | 12800                             | 12800                             | 16800     | 13600        | 12800    | 12800               | 12800              |
|        | AMD/UMD/TrD<br>PDU header, bit | 16                                | 16                                | 0         | 8            | 16       | 16                  | 16                 |
| MAC    | MAC header, bit                | 26                                | 26                                | 2         | 26           | 26       | 26                  | 26                 |
|        | MAC multiplexing               |                                   |                                   | 7 logical | channel mult | iplexing |                     | _                  |
| Layer  | TrCH type                      |                                   |                                   |           | RACH         |          |                     |                    |
| 1      | TB sizes, bit                  |                                   |                                   |           |              |          |                     |                    |
|        |                                | 170                               |                                   |           |              |          |                     |                    |
|        | TFS TF0, bits                  |                                   |                                   |           | 1x170        |          |                     |                    |
|        | TTI, ms                        |                                   |                                   |           | 10           |          |                     |                    |
|        | Coding type                    |                                   |                                   |           | CC 1/2       |          |                     |                    |
|        | CRC, bit                       |                                   |                                   |           | 16           |          |                     |                    |
|        | Max number of                  |                                   |                                   |           | 388          |          |                     |                    |
|        | bits/TTI after                 |                                   |                                   |           |              |          |                     |                    |
|        | channel coding                 |                                   |                                   |           |              |          |                     |                    |
|        | Max number of                  |                                   |                                   |           | 388          |          |                     |                    |
|        | bits/ Radio frame              |                                   |                                   |           |              |          |                     |                    |
| Ī      | before rate                    |                                   |                                   |           |              |          |                     |                    |
|        | matching                       |                                   |                                   |           |              |          |                     |                    |

#### 6.10.3.4.5.3.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

# 6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

### 6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows:

### Transport channel parameters for the Uplink RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB     |
|-----------------|-----------------------------------------------|---------|
| RLC             | Logical channel type                          | DTCH    |
|                 | RLC mode                                      | UM      |
|                 | Payload sizes, bit                            | 328     |
|                 | Max data rate, bps                            | 8200    |
|                 | UMD PDU header, bit                           | 8       |
| MAC             | MAC header, bit                               | 0       |
|                 | MAC multiplexing                              | N/A     |
| Layer 1         | TrCH type                                     | DCH     |
|                 | TB sizes, bit                                 | 336     |
|                 | TFS TF0, bits                                 | 0x336   |
|                 | TF1, bits                                     | 1x336   |
|                 | TTI, ms                                       | 40      |
|                 | Coding type                                   | CC 1/3  |
|                 | CRC, bit                                      | 16      |
|                 | Max number of bits/TTI after channel coding   | 1080    |
|                 | Uplink: Max number of bits/radio frame before | 270     |
|                 | rate matching                                 |         |
|                 | RM attribute                                  | 135-175 |

#### **TFCS**

| TFCS size | 4                                              |
|-----------|------------------------------------------------|
| TFCS      | (8 kbps RAB, DCCH)=                            |
|           | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### Transport channel parameters for the Downlink RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | UM      |
|                 | Payload sizes, bit                          | 328     |
|                 | Max data rate, bps                          | 8200    |
|                 | UMD PDU header, bit                         | 8       |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 336     |
|                 | TFS TF0, bits                               | 0x336   |
|                 | TF1, bits                                   | 1x336   |
|                 | TTI, ms                                     | 40      |
|                 | Coding type                                 | CC 1/3  |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 1080    |
|                 | RM attribute                                | 135-175 |

#### **TFCS**

| TFCS size | 4                                              |
|-----------|------------------------------------------------|
| TFCS      | (8 kbps RAB, DCCH)=                            |
|           | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed:

#### Transport channel parameters for the Uplink RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB     |
|-----------------|-----------------------------------------------|---------|
| RLC             | Logical channel type                          | DTCH    |
|                 | RLC mode                                      | UM      |
|                 | Payload sizes, bit                            | 1336    |
|                 | Max data rate, bps                            | 66800   |
|                 | UMD PDU header, bit                           | 8       |
| MAC             | MAC header, bit                               | 0       |
|                 | MAC multiplexing                              | N/A     |
| Layer 1         | TrCH type                                     | DCH     |
|                 | TB sizes, bit                                 | 1344    |
|                 | TFS TF0, bits                                 | 0x1344  |
|                 | TF1, bits                                     | 1x1344  |
|                 | TTI, ms                                       | 20      |
|                 | Coding type                                   | TC      |
|                 | CRC, bit                                      | 16      |
|                 | Max number of bits/TTI after channel coding   | 4092    |
|                 | Uplink: Max number of bits/radio frame before | 2046    |
|                 | rate matching                                 |         |
|                 | RM attribute                                  | 130-170 |

#### Transport channel parameters for the Downlink RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | UM      |
|                 | Payload sizes, bit                          | 1336    |
|                 | Max data rate, bps                          | 66800   |
|                 | UMD PDU header, bit                         | 8       |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 1344    |
|                 | TFS TF0, bits                               | 0x1344  |
|                 | TF1, bits                                   | 1x1344  |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 4092    |
|                 | RM attribute                                | 130-170 |

## 6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows:

### Transport channel parameters for the Uplink RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB     |
|-----------------|-----------------------------------------------|---------|
| RLC             | Logical channel type                          | DTCH    |
|                 | RLC mode                                      | AM      |
|                 | Payload sizes, bit                            | 128     |
|                 | Max data rate, bps                            | 6400    |
|                 | UMD PDU header, bit                           | 16      |
| MAC             | MAC header, bit                               | 0       |
|                 | MAC multiplexing                              | N/A     |
| Layer 1         | TrCH type                                     | DCH     |
|                 | TB sizes, bit                                 | 144     |
|                 | TFS 0x144                                     | 0x144   |
|                 | 1x144                                         | 1x144   |
|                 | TTI, ms                                       | 20      |
|                 | Coding type                                   | CC 1/3  |
|                 | CRC, bit                                      | 16      |
|                 | Max number of bits/TTI after channel coding   | 504     |
|                 | Uplink: Max number of bits/radio frame before | 252     |
|                 | rate matching                                 |         |
|                 | RM attribute                                  | 135-175 |

#### **TFCS**

| TFCS size | 4                                              |
|-----------|------------------------------------------------|
| TFCS      | (RAB, DCCH)=                                   |
|           | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### Transport channel parameters for the Downlink RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 128     |
|                 | Max data rate, bps                          | 6400    |
|                 | UMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 144     |
|                 | TFS 0x144                                   | 0x144   |
|                 | 1x144                                       | 1x144   |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | CC 1/3  |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 504     |
|                 | RM attribute                                | 135-175 |

#### **TFCS**

| TFCS size | 4                                              |
|-----------|------------------------------------------------|
| TFCS      | (RAB, DCCH)=                                   |
|           | (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

#### Transport channel parameters for the Uplink RAB

| Higher<br>layer | RAB/Signalling RB                             | RAB     |
|-----------------|-----------------------------------------------|---------|
| RLC             | Logical channel type                          | DTCH    |
|                 | RLC mode                                      | AM      |
|                 | Payload sizes, bit                            | 1328    |
|                 | Max data rate, bps                            | 66400   |
|                 | AMD PDU header, bit                           | 16      |
| MAC             | MAC header, bit                               | 0       |
|                 | MAC multiplexing                              | N/A     |
| Layer 1         | TrCH type                                     | DCH     |
|                 | TB sizes, bit                                 | 1344    |
|                 | TFS TF0, bits                                 | 0x1344  |
|                 | TF1, bits                                     | 1x1344  |
|                 | TTI, ms                                       | 20      |
|                 | Coding type                                   | TC      |
|                 | CRC, bit                                      | 16      |
|                 | Max number of bits/TTI after channel coding   | 4092    |
|                 | Uplink: Max number of bits/radio frame before | 2046    |
|                 | rate matching                                 |         |
|                 | RM attribute                                  | 130-170 |

#### Transport channel parameters for the Downlink RAB

| Higher<br>layer | RAB/Signalling RB                           | RAB     |
|-----------------|---------------------------------------------|---------|
| RLC             | Logical channel type                        | DTCH    |
|                 | RLC mode                                    | AM      |
|                 | Payload sizes, bit                          | 1328    |
|                 | Max data rate, bps                          | 66400   |
|                 | AMD PDU header, bit                         | 16      |
| MAC             | MAC header, bit                             | 0       |
|                 | MAC multiplexing                            | N/A     |
| Layer 1         | TrCH type                                   | DCH     |
|                 | TB sizes, bit                               | 1344    |
|                 | TFS TF0, bits                               | 0x1344  |
|                 | TF1, bits                                   | 1x1344  |
|                 | TTI, ms                                     | 20      |
|                 | Coding type                                 | TC      |
|                 | CRC, bit                                    | 16      |
|                 | Max number of bits/TTI after channel coding | 4092    |
|                 | RM attribute                                | 130-170 |

## 6.11.5 Reference Radio Bearer configurations used in Radio Bearer testing for 1.28 Mcps TDD

#### 6.11.5.1 RABs and signalling RBs

See clause 6.10.3.1.

#### 6.11.5.2 Combinations of RABs and Signalling RBs

In this document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (Multiframe)
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75)kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b)Interactive or background / UL:16 DL:16 kbps / PS RAB  $\pm$  UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c)Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d)Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.(20 msTTI)
- 24) Void.
- 25)Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29)Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31)Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35)Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void.
- 37) Void.

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- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:32 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:0 DL:0 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:32 DL:32 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB +
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Interactive or background / UL:0 DL:0 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38g)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Interactive or background / UL:16 DL:16 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Interactive or background / UL:32 DL:32 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:32 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:128 DL:2048 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void.
- 47) Void.
- 48) Void.49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a)Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a)Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b)Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:16 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:128 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or Background / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / Unknown / UL:16 DL:64 kbps / CS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 59) Reserved for future use
- 60) Reserved for future use

- 61) Conversational / Unknown / UL:8 DL:8 kbps / CS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

#### Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

- 1) Stand-alone SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB
  - + Interactive/Background 32 kbps PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.

#### 2b) SRBs for CCCH

- + SRB for DCCH
- + SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.

- 3a) SRB for PCCH
  - + SRB for CCCH
  - + SRB for DCCH
  - + SRB for BCCH.
- 4) RB for CTCH
  - + SRB for CCCH
  - + SRB for BCCH.

#### Combinations on PRACH

- 1) SRB for CCCH
  - + SRBs for DCCH.
- 2) Interactive/Background 12.8 kbps PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.
- 3) Interactive/Background 12.8 kbps PS RAB
  - + Interactive/Background 12.8 kbps PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

#### 6.11.5.3 Example of linkage between RABs and services

See clause 6.10.3.3.

#### 6.11.5.4 Typical radio parameter sets

#### 6.11.5.4.1 Combinations on DPCH

6.11.5.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.1.1 Uplink

6.11.5.4.1.1.1 Transport channel parameters

6.11.5.4.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.

6.11.5.4.1.1.1.2 TFCS

See clause 6.10.3.4.1.1.1.2.

#### 6.11.5.4.1.1.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 160 bits                     |
|             | TFCI code word / radio frame           | 8 bits                       |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 1                            |

6.11.5.4.1.1.2 Downlink

6.11.5.4.1.1.2.1 Transport channel parameters

6.11.5.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.1.2.1.2 TFCS

See clause 6.10.3.4.1.1.2.1.2.

#### 6.11.5.4.1.1.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 160 bits                     |
|          | TFCI code word / radio frame           | 8 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 1                            |

6.11.5.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.11.5.4.1.1a.1 Uplink

6.11.5.4.1.1a.1.1 Transport channel parameters

6.11.5.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.1.1.1.

6.11.5.4.1.1a.1.1.2 TFCS

See clause 6.10.3.4.1.1a.1.1.2.

#### 6.11.5.4.1.1a.1.2 Physical channel parameters

| DPCH Uplink | Modulation                              | QPSK                         |
|-------------|-----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame      | SF16 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame  | 160 bits                     |
|             | TFCI code word / radio frame            | 8 bits                       |
|             | TPC / radio frame                       | 2x 2 bits                    |
|             | SS / radio frame                        | 2x 2 bits                    |
|             | Puncturing Limit                        | 0.60                         |
|             | Note: In case the first TFC in the TFCS | is not configured, the TFCI  |
|             | code word will be 4 bit                 | -                            |

6.11.5.4.1.1a.2 Downlink

6.11.5.4.1.1a.2.1 Transport channel parameters

6.11.5.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.2.1.1.

6.11.5.4.1.1a.2.1.2 TFCS

See clause 6.10.3.4.1.1a.2.1.2.

#### 6.11.5.4.1.1a.2.2 Physical channel parameters

| DPCH Uplink | Modulation                              | QPSK                         |
|-------------|-----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame      | SF16 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame  | 160 bits                     |
|             | TFCI code word / radio frame            | 8 bits                       |
|             | TPC / radio frame                       | 2x 2 bits                    |
|             | SS / radio frame                        | 2x 2 bits                    |
|             | Puncturing Limit                        | 0.60                         |
|             | Note: In case the first TFC in the TFCS | is not configured, the TFCI  |
|             | code word will be 4 bit                 |                              |

6.11.5.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.2.1 Uplink

6.11.5.4.1.2.1.1 Transport channel parameters

6.11.5.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.2.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

#### 6.11.5.4.1.2.1.2 Physical channel parameters

| DPCH Uplink                                                                      | Modulation                             | QPSK                         |
|----------------------------------------------------------------------------------|----------------------------------------|------------------------------|
|                                                                                  | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|                                                                                  | Max. Number of data bits / radio frame | 160 bits                     |
|                                                                                  | TFCI code word / radio frame           | 8 bits                       |
|                                                                                  | TPC / radio frame                      | 2x 2 bits                    |
|                                                                                  | SS / radio frame                       | 2x 2 bits                    |
|                                                                                  | Puncturing Limit                       | 1                            |
| Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit |                                        |                              |

6.11.5.4.1.2.2 Downlink

6.11.5.4.1.2.2.1 Transport channel parameters

6.11.5.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.2.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

#### 6.11.5.4.1.2.2.2 Physical channel parameters

| DPCH                                                                             | Modulation                             | QPSK                         |
|----------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| Downlink                                                                         | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|                                                                                  | Max. Number of data bits / radio frame | 160 bits                     |
|                                                                                  | TFCI code word / radio frame           | 8 bits                       |
|                                                                                  | TPC / radio frame                      | 2x 2 bits                    |
|                                                                                  | SS / radio frame                       | 2x 2 bits                    |
|                                                                                  | Puncturing Limit                       | 1                            |
| Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit |                                        |                              |

6.11.5.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.11.5.4.1.3.1 Uplink

6.11.5.4.1.3.1.1 Transport channel parameters

6.11.5.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.1.1.1.

6.11.5.4.1.3.1.1.2 TFCS

See clause 6.10.3.4.1.3.1.1.2.

#### 6.11.5.4.1.3.1.2 Physical channel parameters

| DPCH Uplink       | Modulation                                | QPSK                        |
|-------------------|-------------------------------------------|-----------------------------|
|                   | Codes and time slots / radio frame        | SF8 x 1 code x 2 time slots |
|                   | Max. Number of data bits / radio frame    | 336 bits                    |
|                   | TFCI code word / radio frame              | 8 bits                      |
|                   | TPC / radio frame                         | 2x 2 bit                    |
|                   | SS / radio frame                          | 2x 2 bit                    |
|                   | Puncturing Limit                          | 0.64                        |
| Note: In case the | ne first TFCS is not configured, the TFCI | code word will be 4 bit     |

6.11.5.4.1.3.2 Downlink

6.11.5.4.1.3.2.1 Transport channel parameters

6.11.5.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.2.1.1.

6.11.5.4.1.3.2.1.2 TFCS

See clause 6.10.3.4.1.3.2.1.2.

#### 6.11.5.4.1.3.2.2 Physical channel parameters

| DPCH                                                                             | Modulation                             | QPSK                          |
|----------------------------------------------------------------------------------|----------------------------------------|-------------------------------|
| Downlink                                                                         | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|                                                                                  | Max. Number of data bits / radio frame | 336 bits                      |
|                                                                                  | TFCI code word / radio frame           | 8 bits                        |
|                                                                                  | TPC / radio frame                      | 2x 2 bits                     |
|                                                                                  | SS / radio frame                       | 2x 2 bits                     |
|                                                                                  | Puncturing Limit                       | 0.64                          |
| Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit |                                        |                               |

6.11.5.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4.1 Uplink

6.11.5.4.1.4.1.1 Transport channel parameters

6.11.5.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.4.1.1.3 TFCS

See clause 6.10.3.4.1.4.1.1.3.

#### 6.11.5.4.1.4.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.48                        |

6.11.5.4.1.4.2 Downlink

6.11.5.4.1.4.2.1 Transport channel parameters

6.11.5.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4.2.1.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

#### 6.11.5.4.1.4.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.48                          |

6.11.5.4.1.4a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4a.1 Uplink

6.11.5.4.1.4a.1.1 Transport channel parameters

6.11.5.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.4a.1.1.3 TFCS

See clause 6.10.3.4.1.4a.1.1.3.

#### 6.11.5.4.1.4a.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.48                        |

6.11.5.4.1.4a.2 Downlink

6.11.5.4.1.4a.2.1 Transport channel parameters

6.11.5.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4a.2.1.3 TFCS

See clause 6.10.3.4.1.4a.1.2.1.3.

#### 6.11.5.4.1.4a.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink |                                        |                               |
|          | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.48                          |

6.11.5.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5.1 Uplink

6.11.5.4.1.5.1.1 Transport channel parameters

6.11.5.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB See clause 6.10.3.4.1.5.1.1.1.

6.11.5.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5.1.1.3 TFCS

See clause 6.10.3.4.1.5.1.1.3.

#### 6.11.5.4.1.5.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.52                         |

6.11.5.4.1.5.2 Downlink

6.11.5.4.1.5.2.1 Transport channel parameters

6.11.5.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB See clause 6.10.3.4.1.5.2.1.1.

6.11.5.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5.2.1.3 TFCS

See clause 6.10.3.4.1.5.2.1.3.

#### 6.11.5.4.1.5.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.5a Conversational / speech / UL:10.2 6.7 5.9 4.75 DL:10.2 6.7 5.9 4.75 kbps / CS

RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5a.1 Uplink

6.11.5.4.1.5a.1.1 Transport channel parameters

6.11.5.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 6.7 5.9 4.75 kbps / CS RAB

Kbps / CO IV

6.11.5.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

See clause 6.10.3.4.1.5a.1.1.1.

6.11.5.4.1.5a.1.1.3 TFCS

See clause 6.10.3.4.1.5a.1.1.3.

#### 6.11.5.4.1.5a.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.52                         |

6.11.5.4.1.5a.2 Downlink

6.11.5.4.1.5a.2.1 Transport channel parameters

6.11.5.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: 10.2 6.7 5.9 4.75

kbps / CS RAB

See clause 6.10.3.4.1.5a.2.1.1.

6.11.5.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5a.2.1.3 TFCS

See clause 6.10.3.4.1.5a.2.1.3.

#### 6.11.5.4.1.5a.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.6.1 Uplink

6.11.5.4.1.6.1.1 Transport channel parameters

6.11.5.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB See clause 6.10.3.4.1.6.1.1.1.

6.11.5.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.6.1.1.3 TFCS

See clause 6.10.3.4.1.6.1.1.3.

#### 6.11.5.4.1.6.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.60                         |

6.11.5.4.1.6.2 Downlink

6.11.5.4.1.6.2.1 Transport channel parameters

6.11.5.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB See clause 6.10.3.4.1.6.2.1.1.

6.11.5.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.6.2.1.3 TFCS

See clause 6.10.3.4.1.6.2.1.3.

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#### 6.11.5.4.1.6.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.60                          |

6.11.5.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7.1 Uplink

6.11.5.4.1.7.1.1 Transport channel parameters

6.11.5.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB See clause 6.10.3.4.1.7.1.1.1.

6.11.5.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7.1.1.3 TFCS

See clause 6.10.3.4.1.7.1.1.3.

#### 6.11.5.4.1.7.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame      | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.64                         |

6.11.5.4.1.7.2 Downlink

6.11.5.4.1.7.2.1 Transport channel parameters

6.11.5.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB See clause 6.10.3.4.1.7.2.1.1.

6.11.5.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7.2.1.3 TFCS

See clause 6.10.3.4.1.7.2.1.3.

#### 6.11.5.4.1.7.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.64                          |

6.11.5.4.1.7a Conversational / speech / UL:7.4 6.7 5.9 4.75 DL:7.4 6.7 5.9 4.75 / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7a.1 Uplink

6.11.5.4.1.7a.1.1 Transport channel parameters

6.11.5.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.1.1.1.

6.11.5.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7a.1.1.3 TFCS

See clause 6.10.3.4.1.7a.1.1.3.

#### 6.11.5.4.1.7a.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame      | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.64                         |

6.11.5.4.1.7a.2 Downlink

6.11.5.4.1.7a.2.1 Transport channel parameters

6.11.5.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.2.1.1.

6.11.5.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7a.2.1.3 TFCS

See clause 6.10.3.4.1.7a.2.1.3.

#### 6.11.5.4.1.7a.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.64                          |

6.11.5.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.8.1 Uplink

6.11.5.4.1.8.1.1 Transport channel parameters

6.11.5.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB See clause 6.10.3.4.1.8.1.1.1.

6.11.5.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.8.1.1.3 TFCS

See clause 6.10.3.4.1.8.1.1.3.

#### 6.11.5.4.1.8.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.68                         |

6.11.5.4.1.8.2 Downlink

6.11.5.4.1.8.2.1 Transport channel parameters

6.11.5.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB See clause 6.10.3.4.1.8.2.1.1.

6.11.5.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.8.2.1.3 TFCS

See clause 6.10.3.4.1.8.2.1.3.

#### 6.11.5.4.1.8.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.68                          |

6.11.5.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.9.1 Uplink

6.11.5.4.1.9.1.1 Transport channel parameters

6.11.5.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB See clause 6.10.3.4.1.9.1.1.1.

6.11.5.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.9.1.1.3 TFCS

See clause 6.10.3.4.1.9.1.1.3.

#### 6.11.5.4.1.9.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.72                         |

6.11.5.4.1.9.2 Downlink

6.11.5.4.1.9.2.1 Transport channel parameters

6.11.5.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB See clause 6.10.3.4.1.9.2.1.1.

6.11.5.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.9.2.1.3 TFCS

See clause 6.10.3.4.1.9.2.1.3.

#### 6.11.5.4.1.9.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.72                          |

6.11.5.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.10.1 Uplink

6.11.5.4.1.10.1.1 Transport channel parameters

6.11.5.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB See clause 6.10.3.4.1.10.1.1.1.

6.11.5.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH See clause 6.10.3.4.1.1.1.1.

6.11.5.4.1.10.1.1.3 TFCS

See clause 6.10.3.4.1.10.1.1.3.

#### 6.11.5.4.1.10.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame      | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.96                         |

6.11.5.4.1.10.2 Downlink

6.11.5.4.1.10.2.1 Transport channel parameters

6.11.5.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB See clause 6.10.3.4.1.10.2.1.1.

6.11.5.4.1.10.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.10.2.1.3 TFCS

See clause 6.10.3.4.1.10.2.1.3.

# 6.11.5.4.1.10.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.96                          |

6.11.5.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.11.1 Uplink

6.11.5.4.1.11.1.1 Transport channel parameters

6.11.5.4.1.11.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB See clause 6.10.3.4.1.11.1.1.

6.11.5.4.1.11.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH See clause 6.10.3.4.1.1.1.1.

6.11.5.4.1.11.1.3 TFCS

See clause 6.10.3.4.1.11.1.3.

# 6.11.5.4.1.11.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 1                            |

6.11.5.4.1.11.2 Downlink

6.11.5.4.1.11.2.1 Transport channel parameters

6.11.5.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB See clause 6.10.3.4.1.11.2.1.1.

6.11.5.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.11.2.1.3 TFCS

See clause 6.10.3.4.1.11.2.1.3.

# 6.11.5.4.1.11.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 1                             |

6.11.5.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.12.1 Uplink

6.11.5.4.1.12.1.1 Transport channel parameters

6.11.5.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB See clause 6.10.3.4.1.12.1.1.1.

6.11.5.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.12.1.1.3 TFCS

See clause 6.10.3.4.1.12.1.1.3.

# 6.11.5.4.1.12.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.52                         |

6.11.5.4.1.12.2 Downlink

6.11.5.4.1.12.2.1 Transport channel parameters

6.11.5.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB See clause 6.10.3.4.1.12.2.1.1.

6.11.5.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.12.2.1.3 TFCS

See clause 6.10.3.4.1.12.2.1.3.

# 6.11.5.4.1.12.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.13.1 Uplink

6.11.5.4.1.13.1.1 Transport channel parameters

6.11.5.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.13.1.1.3 TFCS

See clause 6.10.3.4.1.13.1.1.3.

# 6.11.5.4.1.13.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1384 bits                   |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.52                        |

6.11.5.4.1.13.2 Downlink

6.11.5.4.1.13.2.1 Transport channel parameters

6.11.5.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.13.2.1.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

# 6.11.5.4.1.13.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 8 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 1384 bits                     |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.14.1 Uplink

6.11.5.4.1.14.1.1 Transport channel parameters

6.11.5.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB See clause 6.10.3.4.1.14.1.1.1.

6.11.5.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.14.1.1.3 TFCS

See clause 6.10.3.4.1.14.1.1.3.

# 6.11.5.4.1.14.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS/ radio frame                        | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.44                        |

6.11.5.4.1.14.2 Downlink

6.11.5.4.1.14.2.1 Transport channel parameters

6.11.5.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB See clause 6.10.3.4.1.14.2.1.1.

6.11.5.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.14.2.1.3 TFCS

See clause 6.10.3.4.1.14.2.1.3.

# 6.11.5.4.1.14.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                     |
|          | TFCI code word / radio frame           | 8 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.44                         |

6.11.5.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.15.1 Uplink

6.11.5.4.1.15.1.1 Transport channel parameters

6.11.5.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB See clause 6.10.3.4.1.15.1.1.1.

6.11.5.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.15.1.1.3 TFCS

See clause 6.10.3.4.1.15.1.1.3.

## 6.11.5.4.1.15.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 1                           |

6.11.5.4.1.15.2 Downlink

6.11.5.4.1.15.2.1 Transport channel parameters

6.11.5.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB See clause 6.10.3.4.1.15.2.1.1.

6.11.5.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.15.2.1.3 TFCS

See clause 6.10.3.4.1.15.2.1.3.

# 6.11.5.4.1.15.2.2 Physical channel parameters

| DPCH     | Modulation                        | QPSK                         |
|----------|-----------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame | SF16 x 3 code x 2 time slots |
|          | Max. Number of data bits / radio  | 504 bits                     |
|          |                                   |                              |
|          | TFCI code word / radio frame      | 16 bits                      |
|          | TPC / radio frame                 | 2x 2 bits                    |
|          | SS / radio frame                  | 2x 2 bits                    |
|          | Puncturing Limit                  | 0.76                         |

6.11.5.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.16.1 Uplink

6.11.5.4.1.16.1.1 Transport channel parameters

6.11.5.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB See clause 6.10.3.4.1.16.1.1.1.

6.11.5.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.16.1.1.3 TFCS

See clause 6.10.3.4.1.16.1.1.3.

# 6.11.5.4.1.16.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots/ frame            | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.56                        |

6.11.5.4.1.16.2 Downlink

6.11.5.4.1.16.2.1 Transport channel parameters

6.11.5.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB See clause 6.10.3.4.1.16.2.1.1.

6.11.5.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.16.2.1.3 TFCS

See clause 6.10.3.4.1.16.2.1.3.

# 6.11.5.4.1.16.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                     |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.56                         |

6.11.5.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.17.1 Uplink

6.11.5.4.1.17.1.1 Transport channel parameters

6.11.5.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.17.1.1.3 TFCS

See clause 6.10.3.4.1.17.1.1.3.

# 6.11.5.4.1.17.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots/ radio frame      | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1384 bits                   |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.68                        |

6.11.5.4.1.17.2 Downlink

6.11.5.4.1.17.2.1 Transport channel parameters

6.11.5.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.17.2.1.3 TFCS

See clause 6.10.3.4.1.17.2.1.3.

# 6.11.5.4.1.17.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 1384 bits                    |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.68                         |

6.11.5.4.1.18 Void.

6.11.5.4.1.19 Void.

6.11.5.4.1.20 Void.

6.11.5.4.1.21 Void.

6.11.5.4.1.22 Void.

6.11.5.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

**DCCH** 

6.11.5.4.1.23.1 Uplink

6.11.5.4.1.23.1.1 Transport channel parameters

6.11.5.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23.1.1.3 TFCS

See clause 6.10.3.4.1.23.1.1.3.

# 6.11.5.4.1.23.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                         |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame    | SF 2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1384 bits                    |
|             | TFCI code word/ radio frame          | 16 bits                      |
|             | TPC / radio frame                    | 2 * 2 bits                   |
|             | SS / radio frame                     | 2 * 2 bits                   |
|             | Puncturing Limit                     | 1.0 (alt 0.92)               |

6.11.5.4.1.23.2 Downlink

6.11.5.4.1.23.2.1 Transport channel parameters

6.11.5.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.23.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23.2.1.3 TFCS

See clause 6.10.3.4.1.23.2.1.3.

6.11.5.4.1.23.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 2 codes x 2 time slots |
|          | Max. Number of data bits/radio frame | 336 bits                       |
|          | TFCI code word/ radio frame          | 8 bits                         |
|          | TPC/ radio frame                     | 2*2 bits                       |
|          | SS/ radio frame                      | 2*2 bits                       |
|          | Puncturing Limit                     | 0.76                           |

6.11.5.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23a.1 Uplink

6.11.5.4.1.23a.1.1 Transport channel parameters

6.11.5.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23a.1.1.3 TFCS

See clause 6.10.3.4.1.23a.1.1.3.

6.11.5.4.1.23a.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.72 (alt 0.68)              |

6.11.5.4.1.23a.2 Downlink

See clause 6.11.5.4.1.23.2.

6.11.5.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

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6.11.5.4.1.23b.1 Uplink

6.11.5.4.1.23b.1.1 Transport channel parameters

6.11.5.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23b.1.1.3 TFCS

See clause 6.10.3.4.1.23b.1.1.3.

6.11.5.4.1.23b.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 688 bits                    |
|             | TFCI code word / radio frame           | 16bits                      |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.92 alt (0.84)             |

6.11.5.4.1.23b.2 Downlink

6.11.5.4.1.23b.2.1 Transport channel parameters

6.11.5.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23b.2.1.3 TFCS

See clause 6.10.3.4.1.23b.2.1.3.

6.11.5.4.1.23b.2.2 Physical channel parameters

| DPCH     | Modulation                        | QPSK                         |
|----------|-----------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame | SF16 x 3 code x 2 time slots |
|          | Max. Number of data bits / radio  | 512 bits                     |
|          |                                   |                              |
|          | TFCI code word / radio frame      | 16 bits                      |
|          | TPC / radio frame                 | 2x 2 bits                    |
|          | SS / radio frame                  | 2x 2 bits                    |
|          | Puncturing Limit                  | 0.68                         |

6.11.5.4.1.23c Interactive or background / UL:32 DL32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.23c.1 Uplink

6.11.5.4.1.23c.1.1 Transport channel parameters

6.11.5.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.1.1.1.

6.11.5.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23c.1.1.3 TFCS

See clause 6.10.3.4.1.23c.1.1.3.

6.11.5.4.1.23c.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                         |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame    | SF 2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1384 bits                    |
|             | TFCI code word/ radio frame          | 16 bits                      |
|             | TPC / radio frame                    | 2 * 2 bits                   |
|             | SS / radio frame                     | 2 * 2 bits                   |
|             | Puncturing Limit                     | 1.0 alt (0.92)               |

6.11.5.4.1.23c.2 Downlink

6.11.5.4.1.23c.2.1 Transport channel parameters

6.11.5.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.2.1.1.

6.11.5.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23c.2.1.3 TFCS

See clause 6.10.3.4.1.23c.2.1.3.

## 6.11.5.4.1.23c.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                         |
|----------|--------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame   | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits/radio frame | 1384 bits                    |
|          | TFCI code word / radio frame         | 16 bits                      |
|          | TPC / radio frame                    | 2x 2 bits                    |
|          | SS / radio frame                     | 2x 2 bits                    |
|          | Puncturing Limit                     | 1.0                          |

6.11.5.4.1.23d Interactive or background / UL:32 DL32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23d.1 Uplink

6.11.5.4.1.23d.1.1 Transport channel parameters

6.11.5.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23d.1.1.3 TFCS

See clause 6.10.3.4.1.23d.1.1.3.

# 6.11.5.4.1.23d.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                         |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame    | SF 2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1384 bits                    |
|             | TFCI code word/ radio frame          | 16 bits                      |
|             | TPC / radio frame                    | 2 * 2 bits                   |
|             | SS / radio frame                     | 2 * 2 bits                   |
|             | Puncturing Limit                     | 1.0 alt(0.92)                |

6.11.5.4.1.23d.2 Downlink

6.11.5.4.1.23d.2.1 Transport channel parameters

6.11.5.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.23d.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23d.2.1.3 TFCS

See clause 6.10.3.4.1.23d.2.1.3.

# 6.11.5.4.1.23d.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                         |
|----------|--------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame   | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits/radio frame | 1384 bits                    |
|          | TFCI code word / radio frame         | 16 bits                      |
|          | TPC / radio frame                    | 2x 2 bits                    |
|          | SS / radio frame                     | 2x 2 bits                    |
|          | Puncturing Limit                     | 1                            |

6.11.5.4.1.24 Void.

6.11.5.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.25.1 Uplink

See clause 6.11.5.4.1.23.1.

6.11.5.4.1.25.2 Downlink

6.11.5.4.1.25.2.1 Transport channel parameters

6.11.5.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.25.2.1.3 TFCS

See clause 6.10.3.4.1.25.2.1.3.

# 6.11.5.4.1.25.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                          |
|----------|--------------------------------------|-------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF16 x 8 codes x 2 time slots |
|          | Max. Number of data bits/radio frame | 1384 bits                     |
|          | TFCI code word/ radio frame          | 16 bits                       |
|          | TPC/ radio frame                     | 2*2 bits                      |
|          | SS/ radio frame                      | 2*2 bits                      |
|          | Puncturing Limit/ radio frame        | 0.56                          |

6.11.5.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.26.1 Uplink

6.11.5.4.1.26.1.1 Transport channel parameters

6.11.5.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.26.1.1.3 TFCS

See clause 6.10.3.4.1.26.1.1.3.

## 6.11.5.4.1.26.1.2 Physical channel parameters

| DPCH   |                                      | Physical 1                  | Physical 2                  |
|--------|--------------------------------------|-----------------------------|-----------------------------|
| Uplink | Modulation                           | QPSK                        | QPSK                        |
|        | Codes and time slots/ radio frame    | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 1384 bits                   | 2792 bits                   |
|        | TFCI code word/ radio frame          | 16 bits                     | 16 bits                     |
|        | TPC / radio frame                    | 2 * 2 bits                  | 2x 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                  | 2x 2 bits                   |
|        | Puncturing Limit                     | 0.56 (alt 0.48)             | 1                           |

6.11.5.4.1.26.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

IOI DCCI

6.11.5.4.1.27.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.27.2 Downlink

6.11.5.4.1.27.2.1 Transport channel parameters

6.11.5.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.27.2.1.3 TFCS

See clause 6.10.3.4.1.27.2.1.3.

# 6.11.5.4.1.27.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 4 time slots |
|          | Max. Number of data bits/radio frame | 3144 bits                      |
|          | TFCI code word/ radio frame          | 16 bits                        |
|          | TPC / radio frame                    | 2 * 2 bits                     |
|          | SS / radio frame                     | 2 * 2 bits                     |
|          | Puncturing Limit                     | 0.68                           |

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6.11.5.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps

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SRBs for DCCH

6.11.5.4.1.28.1 Uplink

6.11.5.4.1.28.1.1 Transport channel parameters

6.11.5.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.28.1.1.3 TFCS

See clause 6.10.3.4.1.28.1.1.3.

## 6.11.5.4.1.28.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                         |
|-------------|--------------------------------------|------------------------------|
|             | Codes and time slots/ radio frame    | SF1 x 1 codes x 2 time slots |
|             | Max. Number of data bits/radio frame | 2792 bits                    |
|             | TFCI code word/ radio frame          | 16 bits                      |
|             | TPC/ radio frame                     | 2*2 bits                     |
|             | SS/ radio frame                      | 2*2 bits                     |
|             | Puncturing Limit                     | 0.60                         |

6.11.5.4.1.28.2 Downlink

See clause 6.11.5.4.1.27.2.

6.11.5.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.11.5.4.1.29.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.29.2 Downlink

6.11.5.4.1.29.2.1 Transport channel parameters

6.11.5.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

See clause 6.10.3.4.1.29.2.1.1.

6.11.5.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.29.2.1.3 TFCS

See clause 6.10.3.4.1.29.2.1.3.

## 6.11.5.4.1.29.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 4 time slots |
|          | Max. Number of data bits/radio frame | 3144 bits                      |
|          | TFCI code word/ radio frame          | 16 bits                        |
|          | TPC / radio frame                    | 2 * 2 bits                     |
|          | SS / radio frame                     | 2 * 2 bits                     |
|          | Puncturing Limit                     | 0.52                           |

6.11.5.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.30.1 Uplink

6.11.5.4.1.30.1.1 Transport channel parameters

6.11.5.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB See clause 6.10.3.4.1.30.1.1.1.

6.11.5.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.30.1.1.3 TFCS

See clause 6.10.3.4.1.30.1.1.3.

## 6.11.5.4.1.30.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                            | 8PSK                       |
|-------------|--------------------------------------|---------------------------------|----------------------------|
|             | Codes and time slots/ radio frame    | (SF1 x 1 code x 2 time slots) + | SF1 x 1code x 2 time slots |
|             |                                      | (SF2 x 1 code x 2 time slots)   |                            |
|             | Max. Number of data bits/radio frame | 4200 bits                       | 4188 bits                  |
|             | TFCI code word/ radio frame          | 16 bits                         | 24 bits                    |
|             | TPC/ radio frame                     | 2*2 bits                        | 2* 3bits                   |
|             | SS/ radio frame                      | 2*2 bits                        | 2* 3bits                   |
|             | Puncturing Limit                     | 0.72 (alt 0.64)                 | 0.72 (alt 0.64)            |

6.11.5.4.1.30.2 Downlink

See clause 6.11.5.4.1.29.2.

6.11.5.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.31.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.31.2 Downlink

6.11.5.4.1.31.2.1 Transport channel parameters

6.11.5.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.31.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.31.2.1.3 TFCS

See clause 6.10.3.4.1.31.2.1.3.

6.11.5.4.1.31.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                         |
|----------|--------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 1 x 1 code x 4 time slots |
|          | Max. Number of data bits/radio frame | 5608 bits                    |
|          | TFCI code word/ radio frame          | 16 bits                      |
|          | TPC / radio frame                    | 2 * 2 bits                   |
|          | SS / radio frame                     | 2 * 2 bits                   |
|          | Puncturing Limit                     | 0.56                         |

6.11.5.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.32.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.32.2 Downlink

6.11.5.4.1.32.2.1 Transport channel parameters

 $6.11.5.4.1.32.2.1.1 \qquad \text{Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB}$ 

See clause 6.10.3.4.1.32.2.1.1.

6.11.5.4.1.32.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.32.2.1.3 TFCS

See clause 6.10.3.4.1.32.2.1.3.

6.11.5.4.1.32.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                        | 8PSK                        |
|----------|--------------------------------------|-----------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame    | SF1 x 1 code x 6 time slots | SF1 x 1 code x 4 time slots |
|          | Max. Number of data bits/radio frame | 8424 bits                   | 8412 bits                   |
|          | TFCI code word/ radio frame          | 16 bits                     | 24 bits                     |
|          | TPC/ radio frame                     | 2*2 bits                    | 2*3 bits                    |
|          | SS/ radio frame                      | 2*2 bits                    | 2*3 bits                    |
|          | Puncturing Limit                     | 0.64                        | 0.64                        |

6.11.5.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.33.1 Uplink

See clause 6.11.5.4.1.28.1.

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6.11.5.4.1.33.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.34.1 Uplink

6.11.5.4.1.34.1.1 Transport channel parameters

6.11.5.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.34.1.1.3 TFCS

See clause 6.10.3.4.1.34.1.1.3.

## 6.11.5.4.1.34.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                         | 8PSK                         |
|-------------|--------------------------------------|------------------------------|------------------------------|
|             | Codes and time slots/ radio frame    | SF 1 x 1 code x 6 time slots | SF 1 x 1 code x 4 time slots |
|             | Max. Number of data bits/radio frame | 8424 bits                    | 8412 bits                    |
|             | TFCI code word / radio frame         | 16 bits                      | 24 bits                      |
|             | TPC / radio frame                    | 2 * 2 bits                   | 2 * 3 bits                   |
|             | SS / radio frame                     | 2 * 2 bits                   | 2 * 3 bits                   |
|             | Puncturing Limit                     | 0.64                         | 0.64                         |

6.11.5.4.1.34.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.35.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.35.2 Downlink

6.11.5.4.1.35.2.1 Transport channel parameters

6.11.5.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

| Higher<br>Layer | RAB/Signalling RB                                   | RAB                 |
|-----------------|-----------------------------------------------------|---------------------|
| RLC             | Logical channel type                                | DTCH                |
|                 | RLC mode                                            | AM                  |
|                 | Payload sizes, bit                                  | 1704                |
|                 | Max data rate, bps                                  | 2048000             |
|                 | RLC header, bit                                     | 16                  |
| MAC             | MAC header, bit                                     | 0                   |
|                 | MAC multiplexing                                    | N/A                 |
| Layer 1         | TrCH type                                           | DCH                 |
|                 | TB sizes, bit                                       | 1720                |
|                 | TFS TF0, bits                                       | 0x1720              |
|                 | TF1, bits                                           | 1x1720              |
|                 | TF2, bits                                           | 2x1720              |
|                 | TF3, bits                                           | 4x1720              |
|                 | TF4, bits                                           | 8 x1720             |
|                 | TF5, bits                                           | 12x1720             |
|                 | TF6, bits                                           | N/A (alt. 16x1720)  |
|                 | TF7, bits                                           | N/A (alt. 20x1720)  |
|                 | TF8, bits                                           | N/A (alt. 24x1720)  |
|                 | TTI, ms                                             | 10(alt. 20)         |
|                 | Coding type                                         | No coding           |
|                 | CRC, bit                                            | 24                  |
|                 | Max number of bits/TTI after channel coding         | 20928 (alt. 41856)  |
|                 | Max number of bits/radio frame before rate matching | 20928 ( alt. 20928) |
|                 | RM attribute                                        | 130-170             |

# 6.11.5.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.11.5.4.1.35.2.1.3 TFCS

| TFCS size | 12 (alt.18)                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS      | (2048 kbps RAB, DCCH)=                                                                          |
|           | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),                         |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1),                         |
|           | (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, |
|           | TF0), (TF8, TF0),                                                                               |
|           | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |
|           | (TF8, TF1))                                                                                     |

# 6.11.5.4.1.35.2.2 Physical channel parameters

| DPCH     | Modulation                           | 8PSK                         |
|----------|--------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF1 x 1 code x 10 time slots |
|          | Max. Number of data bits/radio frame | 21084 bits                   |
|          | TFCI code word/ radio frame          | 24 bits                      |
|          | TPC/ radio frame                     | 2*3 bits                     |
|          | SS/ radio frame                      | 2*3 bits                     |
|          | Puncturing Limit                     | 1                            |

6.11.5.4.1.36 Void.

6.11.5.4.1.37 Void.

6.11.5.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:32 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38.1 Uplink

6.11.5.4.1.38.1.1 Transport channel parameters

6.11.5.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38.1.1.4 TFCS

See clause 6.10.3.4.1.38.1.1.4.

6.11.5.4.1.38.1.2 Physical channel parameters

| DPCH   | Modulation                           | QPSK                         |
|--------|--------------------------------------|------------------------------|
| Uplink | Codes and time slots/ radio frame    | SF 2 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 1384 bits                    |
|        | TFCI code word / radio frame         | 16 bits                      |
|        | TPC / radio frame                    | 2 * 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                   |
|        | Puncturing Limit                     | 0.72 (alt 0.68)              |

6.11.5.4.1.38.2 Downlink

6.11.5.4.1.38.2.1 Transport channel parameters

6.11.5.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38.2.1.4 TFCS

See clause 6.10.3.4.1.38.2.1.4.

## 6.11.5.4.1.38.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                          |
|----------|--------------------------------------|-------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF16 x 3 codes x 2 time slots |
|          | Max. Number of data bits/radio frame | 504 bits                      |
|          | TFCI code word/ radio frame          | 16 bits                       |
|          | TPC/ radio frame                     | 2*2 bits                      |
|          | SS/ radio frame                      | 2*2 bits                      |
|          | Puncturing Limit                     | 0.44                          |

6.11.5.4.1.38a Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:0 DL:0 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38a.1 Uplink

6.11.5.4.1.38a.1.1 Transport channel parameters

6.11.5.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.1.1.2.

6.11.5.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38a.1.1.4 TFCS

See clause 6.10.3.4.1.38a.1.1.4.

#### 6.11.5.4.1.38a.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.48                        |

6.11.5.4.1.38a.2 Downlink

6.11.5.4.1.38a.2.1 Transport channel parameters

6.11.5.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.2.1.2.

6.11.5.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38a.2.1.4 TFCS

See clause 6.10.3.4.1.38a.2.1.4.

## 6.11.5.4.1.38a.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.48                          |

6.11.2.5.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:8 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38b.1 Uplink

6.11.5.4.1.38b.1.1 Transport channel parameters

6.11.5.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38b.1.1.4 TFCS

See clause 6.10.3.4.1.38b.1.1.4.

# 6.11.5.4.1.38b.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots/ frame            | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.64 alt(0.60)              |

6.11.5.4.1.38b.2 Downlink

6.11.5.4.1.38b.2.1 Transport channel parameters

6.11.5.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38b.2.1.4 TFCS

See clause 6.10.3.4.1.38b.2.1.4.

6.11.5.4.1.38b.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                     |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.64                         |

6.11.2.5.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:32 DL:32 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38c.1 Uplink

6.11.5.4.1.38c.1.1 Transport channel parameters

6.11.5.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38c.1.1.4 TFCS

See clause 6.10.3.4.1.38c.1.1.4.

## 6.11.5.4.1.38c.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                             |
|-------------|----------------------------------------|----------------------------------|
|             | Codes and time slots/ radio frame      | SF2 x 1 code x 2 time slots      |
|             | Max. Number of data bits / radio frame | 1384 bits                        |
|             | TFCI code word / radio frame           | 16 bits                          |
|             | TPC / radio frame                      | 2x 2 bits                        |
|             | SS / radio frame                       | 2x 2 bits                        |
|             | Puncturing Limit                       | 0.72 (alt 0.64) for TFCS size=18 |
|             |                                        | 0.80 (alt 0.72) for TFCS size=17 |

6.11.5.4.1.38c.2 Downlink

6.11.5.4.1.38c.2.1 Transport channel parameters

6.11.5.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38c.2.1.4 TFCS

See clause 6.10.3.4.1.38c.2.1.4.

# 6.11.5.4.1.38c.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 1384 bits                    |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.72 (alt 0.64)              |

6.11.5.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38d.1 Uplink

6.11.5.4.1.38d.1.1 Transport channel parameters

6.11.5.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.38d.1.1.2.

6.11.5.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38d.1.1.4 TFCS

See clause 6.10.3.4.1.38d.1.1.4.

6.11.5.4.1.38d.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                            | 8PSK                       |
|-------------|--------------------------------------|---------------------------------|----------------------------|
|             | Codes and time slots/ radio frame    | (SF1 x 1 code x 2 time slots) + | SF1 x 1code x 2 time slots |
|             |                                      | (SF2 x 1 code x 2 time slots)   |                            |
|             | Max. Number of data bits/radio frame | 4200 bits                       | 4188 bits                  |
|             | TFCI code word/ radio frame          | 16 bits                         | 24 bits                    |
|             | TPC/ radio frame                     | 2*2 bits                        | 2* 3bits                   |
|             | SS/ radio frame                      | 2*2 bits                        | 2* 3bits                   |
|             | Puncturing Limit                     | 0.72 (alt 0.64)                 | 0.72 (alt 0.64)            |

6.11.5.4.1.38d.2 Downlink

6.11.5.4.1.38d.2.1 Transport channel parameters

6.11.5.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.38d.2.1.2.

6.11.5.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38d.2.1.4 TFCS

See clause 6.10.3.4.1.38d.2.1.4.

6.11.5.4.1.38d.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 4 time slots |
|          | Max. Number of data bits/radio frame | 3144 bits                      |
|          | TFCI code word/ radio frame          | 16 bits                        |
|          | TPC / radio frame                    | 2 * 2 bits                     |
|          | SS / radio frame                     | 2 * 2 bits                     |
|          | Puncturing Limit                     | 0.52                           |

6.11.5.4.1.38e Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

**RAB** 

+ Interactive or background / UL:0 DL:0 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38e.1 Uplink

6.11.5.4.1.38e.1.1 Transport channel parameters

6.11.5.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.11.5.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38e.1.1.4 TFCS

See clause 6.10.3.4.1.38e.1.1.4.

6.11.5.4.1.38e.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.48                        |

6.11.5.4.1.38e.2 Downlink

6.11.5.4.1.38e.2.1 Transport channel parameters

6.11.5.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

6.11.5.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38e.2.1.4 TFCS

See clause 6.10.3.4.1.38e.2.1.4.

## 6.11.5.4.1.38e.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 328 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.48                          |

6.11.5.4.1.38f Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB

+ Interactive or background / UL:8 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38f.1 Uplink

6.11.5.4.1.38f.1.1 Transport channel parameters

6.11.5.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38f.1.1.4 TFCS

See clause 6.10.3.4.1.38f.1.1.4.

#### 6.11.5.4.1.38f.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots/ frame            | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.64 (alt 0.60)             |

## 6.11.5.4.1.38f.2 Downlink

6.11.5.4.1.38f.2.1 Transport channel parameters

6.11.5.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38f.2.1.4 TFCS

See clause 6.10.3.4.1.38f.2.1.4.

## 6.11.5.4.1.38f.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                     |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.64                         |

6.11.5.4.1.38g Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

RAB

+ Interactive or background / UL:16 DL:16 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38g.1 Uplink

6.11.5.4.1.38g.1.1 Transport channel parameters

6.11.5.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38g.1.1.4 TFCS

See clause 6.10.3.4.1.38g.1.1.4.

# 6.11.5.4.1.38g.1.2 Physical channel parameters

| DPCH Uplink                                                | Modulation                             | QPSK                        |
|------------------------------------------------------------|----------------------------------------|-----------------------------|
|                                                            | Codes and time slots/ radio frame      | SF2 x 1 code x 2 time slots |
|                                                            | Max. Number of data bits / radio frame | 1384 bits                   |
|                                                            | TFCI code word / radio frame           | 16 bits                     |
|                                                            | TPC / radio frame                      | 2x 2 bits                   |
|                                                            | SS / radio frame                       | 2x 2 bits                   |
|                                                            | Puncturing Limit                       | 1.0 (alt 0.96)              |
| Note: There are 32 bit and 16 bit TFCIs for the two cases. |                                        |                             |

6.11.5.4.1.38g.2 Downlink

6.11.5.4.1.38g.2.1 Transport channel parameters

6.11.5.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 /

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38g.2.1.4 TFCS

See clause 6.10.3.4.1.38g.2.1.4.

6.11.5.4.1.38g.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 1384 bits                    |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 1.0                          |

6.11.5.4.1.38h Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

+ Interactive or background / UL:32 DL:32 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38h.1 Uplink

6.11.5.4.1.38h.1.1 Transport channel parameters

6.11.5.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38h.1.1.4 TFCS

See clause 6.10.3.4.1.38h.1.1.4.

## 6.11.5.4.1.38h.1.2 Physical channel parameters

| DPCH   | Modulation                           | QPSK                        |
|--------|--------------------------------------|-----------------------------|
| Uplink | Codes and time slots / radio frame   | SF2 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 1384 bits                   |
|        | TFCI code word / radio frame         | 16 bits                     |
|        | TPC / radio frame                    | 2x 2 bits                   |
|        | SS/ radio frame                      | 2x 2 bits                   |
|        | Puncturing Limit                     | 0.72 (alt 0.64)             |

6.11.5.4.1.38h.2 Downlink

6.11.5.4.1.38h.2.1 Transport channel parameters

6.11.5.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38h.2.1.4 TFCS

See clause 6.10.3.4.1.38h.2.1.4.

# 6.11.5.4.1.38h.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 1384 bits                    |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.72                         |

6.11.5.4.1.38i Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38i.1 Uplink

6.11.5.4.1.38i.1.1 Transport channel parameters

6.11.5.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38i.1.1.4 TFCS

See clause 6.10.3.4.1.38i.1.1.4.

# 6.11.5.4.1.38i.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                            | 8PSK                       |
|-------------|--------------------------------------|---------------------------------|----------------------------|
|             | Codes and time slots/ radio frame    | (SF1 x 1 code x 2 time slots) + | SF1 x 1code x 2 time slots |
|             |                                      | (SF2 x 1 code x 2 time slots)   |                            |
|             | Max. Number of data bits/radio frame | 4200 bits                       | 4188 bits                  |
|             | TFCI code word/ radio frame          | 16 bits                         | 24 bits                    |
|             | TPC/ radio frame                     | 2*2 bits                        | 2* 3bits                   |
|             | SS/ radio frame                      | 2*2 bits                        | 2* 3bits                   |
|             | Puncturing Limit                     | 1                               | 1                          |

## 6.11.5.4.1.38i.2 Downlink

6.11.5.4.1.38i.2.1 Transport channel parameters

6.11.5.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38i.2.1.4 TFCS

See clause 6.10.3.4.1.38i.2.1.4.

# 6.11.5.4.1.38i.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 4 time slots |
|          | Max. Number of data bits/radio frame | 3144 bits                      |
|          | TFCI code word/ radio frame          | 16 bits                        |
|          | TPC / radio frame                    | 2 * 2 bits                     |
|          | SS / radio frame                     | 2 * 2 bits                     |
|          | Puncturing Limit                     | 1                              |

6.11.5.4.1.38j Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38j.1 Uplink

See clause 6.11.5.4.1.38i.1.

6.11.5.4.1.38j.2 Downlink

6.11.5.4.1.38j.2.1 Transport channel parameters

6.11.5.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38j.2.1.4 TFCS

See clause 6.10.3.4.1.38j.2.1.4.

## 6.11.5.4.1.38j.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 4 time slots |
|          | Max. Number of data bits/radio frame | 3144 bits                      |
|          | TFCI code word/ radio frame          | 16 bits                        |
|          | TPC / radio frame                    | 2 * 2 bits                     |
|          | SS / radio frame                     | 2 * 2 bits                     |
|          | Puncturing Limit                     | 0.60                           |

6.11.5.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.39.1 Uplink

See clause 6.11.5.4.1.38.1.

6.11.5.4.1.39.2 Downlink

6.11.5.4.1.39.2.1 Transport channel parameters

6.11.5.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.39.2.1.4 TFCS

See clause 6.10.3.4.1.39.2.1.4.

## 6.11.5.4.1.39.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                      |
|----------|--------------------------------------|---------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 10 codes x 2 time |
|          |                                      | slots                     |
|          | Max. Number of data bits/radio frame | 1736 bits                 |
|          | TFCI code word / radio frame         | 16 bits                   |
|          | TPC / radio frame                    | 2 * 2 bits                |
|          | SS / radio frame                     | 2 * 2 bits                |
|          | Puncturing Limit                     | 0.56                      |

6.11.5.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.40.1 Uplink

6.11.5.4.1.40.1.1 Transport channel parameters

See clause 6.10.3.4.1.40.1.1.

6.11.5.4.1.40.1.2 Physical channel parameters

# 6.11.5.4.1.40.1.2.1 Physical channel parameters (one CCTrCH case)

| DPCH Uplink | Modulation                           | QPSK                        |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots/ radio frame    | SF1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 2792 bits                   |
|             | TFCI code word/ radio frame          | 16 bits                     |
|             | TPC/ radio frame                     | 2*2 bits                    |
|             | SS/ radio frame                      | 2*2 bits                    |
|             | Puncturing Limit                     | 0.92 (alt. 0.84)            |

6.11.5.4.1.40.1.2.2 Physical channel parameters (two CCTrCH case)

6.11.5.4.1.40.1.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.1.2.

## 6.11.5.4.1.40.1.2.2.2 Physical channel parameters (Interactive or background)

| DPCH Uplink | Modulation                           | QPSK                        |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots/ radio frame    | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1384 bits                   |
|             | TFCI code word/ radio frame          | 16 bits                     |
|             | TPC/ radio frame                     | 2*2 bits                    |
|             | SS/ radio frame                      | 2*2 bits                    |
|             | Puncturing Limit                     | 0.64 (alt. 0.56)            |

6.11.5.4.1.40.2 Downlink

6.11.5.4.1.40.2.1 Transport channel parameters

See clause 6.10.3.4.1.40.2.1.

6.11.5.4.1.40.2.2 Physical channel parameters

6.11.5.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See Clause 6.11.5.4.1.39.2.2.

6.11.5.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

## 6.11.5.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH     | Modulation                           | QPSK                          |
|----------|--------------------------------------|-------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF16 x 8 codes x 2 time slots |
|          | Max. Number of data bits/radio frame | 1384 bits                     |
|          | TFCI code word/ radio frame          | 16 bits                       |
|          | TPC/ radio frame                     | 2*2 bits                      |
|          | SS/ radio frame                      | 2*2 bits                      |
|          | Puncturing Limit                     | 0.64                          |

6.11.5.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.41.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.41.2 Downlink

6.11.5.4.1.41.2.1 Transport channel parameters

See clause 6.10.3.4.1.41.2.1.

6.11.5.4.1.41.2.2 Physical channel parameters

# 6.11.5.4.1.41.2.2.1 Physical channel parameters (one CCTrCH case)

| DPCH     | Modulation                           | QPSK                           | 8PSK                      |
|----------|--------------------------------------|--------------------------------|---------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 4 time slots | SF 16 x 12 codes x 2 time |
|          |                                      |                                | slots                     |
|          | Max. Number of data bits/radio frame | 3144 bits                      | 3132 bits                 |
|          | TFCI code word / radio frame         | 16 bits                        | 24 bits                   |
|          | TPC / radio frame                    | 2 * 2 bits                     | 2 x 3 bits                |
|          | SS / radio frame                     | 2 * 2 bits                     | 2 x 3 bits                |
|          | Puncturing Limit                     | 0.60                           | 0.60                      |

6.11.5.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

# 6.11.5.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH     | Modulation                           | QPSK                         | 8PSK                      |
|----------|--------------------------------------|------------------------------|---------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 1 x 1 code x 2 time slots | SF 16 x 11 codes x 2 time |
|          |                                      |                              | slots                     |
|          | Max. Number of data bits/radio frame | 2792 bits                    | 2868 bits                 |
|          | TFCI code word / radio frame         | 16 bits                      | 24 bits                   |
|          | TPC / radio frame                    | 2 * 2 bits                   | 2 x 3 bits                |
|          | SS / radio frame                     | 2 * 2 bits                   | 2 x 3 bits                |
|          | Puncturing Limit                     | 0.64                         | 0.64                      |

6.11.5.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.42.1 Uplink

6.11.5.4.1.42.1.1 Transport channel parameters

See Clause 6.10.3.4.1.42.1.1.

6.11.5.4.1.42.1.2 Physical channel parameters

See Clause 6.10.3.4.1.40.1.2.1.

6.11.5.4.1.42.2 Downlink

6.11.5.4.1.42.2.1 Transport channel parameters

6.11.5.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.42.2.1.4 TFCS

See clause 6.10.3.4.1.42.2.1.4.

# 6.11.5.4.1.42.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                       | 8PSK                        |
|----------|--------------------------------------|----------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame    | SF1 x 1code x 6 time slots | SF1 x 1 code x 4 time slots |
|          | Max. Number of data bits/radio frame | 8408 bits                  | 8388 bits                   |
|          | TFCI code word/ radio frame          | 32 bits                    | 48 bits                     |
|          | TPC/ radio frame                     | 2*2 bits                   | 2*3 bits                    |
|          | SS/ radio frame                      | 2*2 bits                   | 2*3 bits                    |
|          | Puncturing Limit                     | 0.80                       | 0.80                        |

6.11.5.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:384 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.43.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.43.2 Downlink

6.11.5.4.1.43.2.1 Transport channel parameters

See clause 6.10.3.4.1.43.2.1.

6.11.5.4.1.43.2.2 Physical channel parameters

# 6.11.5.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

| DPCH     | Modulation                           | QPSK                         | 8PSK                         |
|----------|--------------------------------------|------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 1 x 1 code x 6 time slots | SF 1 x 1 code x 4 time slots |
|          | Max. Number of data bits/radio frame | 8408 bits                    | 8388 bits                    |
|          | TFCI code word / radio frame         | 32 bits                      | 48 bits                      |
|          | TPC / radio frame                    | 2 * 2 bits                   | 2 x 3 bits                   |
|          | SS / radio frame                     | 2 * 2 bits                   | 2 x 3 bits                   |
|          | Puncturing Limit                     | 0.60                         | 0.60                         |

6.11.5.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

## 6.11.5.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCH     | Modulation                           | QPSK                              | 8PSK                         |
|----------|--------------------------------------|-----------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame    | (SF 1 x 1 code x 4 time slots) +  | SF 1 x 1 code x 4 time slots |
|          |                                      | (SF 16 x 10 codes x 2 time slots) |                              |
|          | Max. Number of data bits/radio frame | 7368 bits                         | 8412 bits                    |
|          | TFCI code word / radio frame         | 16 bits                           | 24 bits                      |
|          | TPC / radio frame                    | 2 * 2 bits                        | 2 x 3 bits                   |
|          | SS / radio frame                     | 2 * 2 bits                        | 2 x 3 bits                   |
|          | Puncturing Limit                     | 0.56                              | 0.64                         |

6.11.5.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:128 DL:2048 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.44.1 Uplink

6.11.5.4.1.44.1.1 Transport channel parameters

6.11.5.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.44.1.1.4 TFCS

See clause 6.10.3.4.1.44.1.1.4.

#### 6.11.5.4.1.44.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | 8PSK                        |
|-------------|--------------------------------------|-----------------------------|
|             | Codes and time slots/ radio frame    | SF1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 4188 bits                   |
|             | TFCI code word/ radio frame          | 24 bits                     |
|             | TPC/ radio frame                     | 2*3 bits                    |
|             | SS/ radio frame                      | 2*3 bits                    |
|             | Puncturing Limit                     | 0.80 (alt 0.72)             |

6.11.5.4.1.44.2 Downlink

6.11.5.4.1.44.2.1 Transport channel parameters

6.11.5.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

See clause 6.11.5.4.1.35.2.1.1.

6.11.5.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.44.2.1.4 TFCS

| TFCS size | 32 (alt.50)                                                                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=                                                                                               |
| 11 03     | ((TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                                                                                           |
|           | (110, 110, 110, 110, 110), (111, 110, 110, 110), (112, 111, 111, 110, 110), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),           |
|           | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0),                            |
|           | (TFO, TFO, TFO, TF5, TFO), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                                                                                       |
|           |                                                                                                                                                                   |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), |
|           |                                                                                                                                                                   |
|           | (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),                                                                                  |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1))                                                       |
|           |                                                                                                                                                                   |
|           | (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),                                                                            |
|           | (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0),                            |
|           | (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),                                                                                  |
|           | (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF0, TF0, TF0, TF0, TF0,                                         |
|           | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0), (TF1, TF0, TF0),                                                |
|           | (TFO, TFO, TFO, TFF, TFO), (TFT, TFO, TFO, TFF, TFO), (TF2, TFT, TFT, TFF),                                                                                       |
|           | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),                                                                                       |
|           | (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF1, TF1),                                                                      |
|           |                                                                                                                                                                   |
|           | (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), |
|           |                                                                                                                                                                   |
|           | (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), |
|           |                                                                                                                                                                   |
|           | (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF7, TF1), (TF1, TF0, TF1, TF1, TF2, TF1)                             |
|           | (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),                                                                                  |
|           | (TF0, TF0, TF0, TF8, TF1))                                                                                                                                        |

#### 6.11.5.4.1.44.2.2 Physical channel parameters

| DPCH     | Modulation                           | 8PSK                          |
|----------|--------------------------------------|-------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 1 x 1 code x 10 time slots |
|          | Max. Number of data bits/radio frame | 21060 bits                    |
|          | TFCI code word / radio frame         | 48 bits                       |
|          | TPC / radio frame                    | 2 * 3 bits                    |
|          | SS / radio frame                     | 2 * 3 bits                    |
|          | Puncturing Limit                     | 1                             |

6.11.5.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.45.1 Uplink

6.11.5.4.1.45.1.1 Transport channel parameters

6.11.5.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.45.1.1.4 TFCS

See clause 6.10.3.4.1.45.1.1.4.

## 6.11.5.4.1.45.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                       |
|-------------|--------------------------------------|----------------------------|
|             | Codes and time slots/ radio frame    | SF2 x 1code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1384 bits                  |
|             | TFCI code word/ radio frame          | 16 bits                    |
|             | TPC/ radio frame                     | 2*2 bits                   |
|             | SS/ radio frame                      | 2*2 bits                   |
|             | Puncturing Limit                     | 0.52                       |

6.11.5.4.1.45.2 Downlink

6.11.5.4.1.45.2.1 Transport channel parameters

6.11.5.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.45.2.1.4 TFCS

See clause 6.10.3.4.1.45.2.1.4.

## 6.11.5.4.1.45.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                           |
|----------|--------------------------------------|--------------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 9 codes x 2 time slots |
|          | Max. Number of data bits/radio frame | 1560 bits                      |
|          | TFCI code word / radio frame         | 16 bits                        |
|          | TPC / radio frame                    | 2 * 2 bits                     |
|          | SS / radio frame                     | 2 * 2 bits                     |
|          | Puncturing Limit                     | 0.56                           |

| 6.11.5.4.1.46   | Void                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.11.5.4.1.47   | Void                                                                                                                                              |
| 6.11.5.4.1.48   | Void                                                                                                                                              |
| 6.11.5.4.1.49   | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH |
| 6.11.5.4.1.49.1 | Uplink                                                                                                                                            |

6.11.5.4.1.49.1.1 Transport channel parameters

6.11.5.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49.1.1.4 TFCS

See clause 6.10.3.4.1.49.1.1.4.

## 6.11.5.4.1.49.1.2 Physical channel parameters

| DPCH   | Modulation                           | QPSK                         |
|--------|--------------------------------------|------------------------------|
| Uplink | Codes and time slots/ radio frame    | SF 1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 2792 bits                    |
|        | TFCI code word / radio frame         | 16 bits                      |
|        | TPC / radio frame                    | 2 * 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                   |
|        | Puncturing Limit                     | 0.88                         |

6.11.5.4.1.49.2 Downlink

6.11.5.4.1.49.2.1 Transport channel parameters

6.11.5.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49.2.1.4.

#### 6.11.5.4.1.49.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                     |
|----------|--------------------------------------|--------------------------|
| Downlink | Codes and time slots/ radio frame    | SF16 x 11 codes x 2 time |
|          |                                      | slots                    |
|          | Max. Number of data bits/radio frame | 1912 bits                |
|          | TFCI code word/ radio frame          | 16 bits                  |
|          | TPC/ radio frame                     | 2*2 bits                 |
|          | SS/ radio frame                      | 2*2 bits                 |
|          | Puncturing Limit                     | 0.60                     |

6.11.5.4.1.49a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL: 12.2 7.95 5.9 4.75 kbps / CS

RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49a.1 Uplink

6.11.5.4.1.49a.1.1 Transport channel parameters

6.11.5.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49a.1.1.4 TFCS

See clause 6.10.3.4.1.49a.1.1.4.

#### 6.11.5.4.1.49a.1.2 Physical channel parameters

| DPCH   | Modulation                           | QPSK                         |
|--------|--------------------------------------|------------------------------|
| Uplink | Codes and time slots/ radio frame    | SF 1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 2792 bits                    |
|        | TFCI code word / radio frame         | 16 bits                      |
|        | TPC / radio frame                    | 2 * 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                   |
|        | Puncturing Limit                     | 0.88                         |

6.11.5.4.1.49a.2 Downlink

6.11.5.4.1.49a.2.1 Transport channel parameters

6.11.5.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49a.2.1.4.

#### 6.11.5.4.1.49a.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                     |
|----------|--------------------------------------|--------------------------|
| Downlink | Codes and time slots/ radio frame    | SF16 x 11 codes x 2 time |
|          |                                      | slots                    |
|          | Max. Number of data bits/radio frame | 1912 bits                |
|          | TFCI code word/ radio frame          | 16 bits                  |
|          | TPC/ radio frame                     | 2*2 bits                 |
|          | SS/ radio frame                      | 2*2 bits                 |
|          | Puncturing Limit                     | 0.60                     |

6.11.5.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.50.1 Uplink

6.11.5.4.1.50.1.1 Transport channel parameters

6.11.5.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.50.1.1.3 TFCS

See clause 6.10.3.4.1.50.1.1.3.

#### 6.11.5.4.1.50.1.2 Physical channel parameters

| DPCH   | Modulation                           | QPSK                         |
|--------|--------------------------------------|------------------------------|
| Uplink | Codes and time slots/ radio frame    | SF 1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 2792 bits                    |
|        | TFCI code word / radio frame         | 16 bits                      |
|        | TPC / radio frame                    | 2 * 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                   |
|        | Puncturing Limit                     | 0.52                         |

6.11.5.4.1.50.2 Downlink

6.11.5.4.1.50.2.1 Transport channel parameters

6.11.5.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.50.2.1.3 TFCS

See clause 6.10.3.4.1.50.2.1.3.

#### 6.11.5.4.1.50.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                      |
|----------|--------------------------------------|---------------------------|
| Downlink | Codes and time slots/ radio frame    | SF 16 x 15 codes x 2 time |
|          |                                      | slots                     |
|          | Max. Number of data bits/radio frame | 2616 bits                 |
|          | TFCI code word/ radio frame          | 16 bits                   |
|          | TPC/ radio frame                     | 2*2 bits                  |
|          | SS/ radio frame                      | 2*2 bits                  |
|          | Puncturing Limit                     | 0.48                      |

6.11.5.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51.1 Uplink

6.11.5.4.1.51.1.1 Transport channel parameters

6.11.5.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51.1.1.4 TFCS

See clause 6.10.3.4.1.51.1.1.4.

#### 6.11.5.4.1.51.1.2 Physical channel parameters

| DPCH   | Modulation                           | QPSK                         |
|--------|--------------------------------------|------------------------------|
| Uplink | Codes and time slots/ radio frame    | SF 1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 2792 bits                    |
|        | TFCI code word / radio frame         | 16 bits                      |
|        | TPC / radio frame                    | 2 * 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                   |
|        | Puncturing Limit                     | 0.52 (alt. 0.48)             |

6.11.5.4.1.51.2 Downlink

6.11.5.4.1.51.2.1 Transport channel parameters

6.11.5.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

#### 6.11.5.4.1.51.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                        |
|----------|--------------------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame    | SF1 x 1 code x 2 time slots |
|          | Max. Number of data bits/radio frame | 2792 bits                   |
|          | TFCI code word/ radio frame          | 16 bits                     |
|          | TPC/ radio frame                     | 2*2 bits                    |
|          | SS/ radio frame                      | 2*2 bits                    |
|          | Puncturing Limit                     | 0.52                        |

6.11.5.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:8 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51a.1 Uplink

6.11.5.4.1.51a.1.1 Transport channel parameters

6.11.5.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51a.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51a.1.1.4 TFCS

See clause 6.10.3.4.1.51a.1.1.4.

6.11.5.4.1.51a.1.2 Physical channel parameters

| DPCH   |                                      | Physical 1                  | Physical 2                  |
|--------|--------------------------------------|-----------------------------|-----------------------------|
| Uplink | Modulation                           | QPSK                        | QPSK                        |
|        | Codes and time slots/ radio frame    | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 1384 bits                   | 2792 bits                   |
|        | TFCI code word/ radio frame          | 16 bits                     | 16 bits                     |
|        | TPC / radio frame                    | 2 * 2 bits                  | 2x 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                  | 2x 2 bits                   |
|        | Puncturing Limit                     | 0.40                        | 0.84                        |

6.11.5.4.1.51a.2 Downlink

6.11.5.4.1.51a.2.1 Transport channel parameters

6.11.5.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51a.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

#### 6.11.5.4.1.51a.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                        |
|----------|--------------------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame    | SF1 x 1 code x 2 time slots |
|          | Max. Number of data bits/radio frame | 2792 bits                   |
|          | TFCI code word/ radio frame          | 16 bits                     |
|          | TPC/ radio frame                     | 2*2 bits                    |
|          | SS/ radio frame                      | 2*2 bits                    |
|          | Puncturing Limit                     | 0.84                        |

6.11.5.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:16 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51b.1 Uplink

6.11.5.4.1.51b.1.1 Transport channel parameters

6.11.5.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51b.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51b.1.1.4 TFCS

See clause 6.10.3.4.1.51b.1.1.4.

#### 6.11.5.4.1.51b.1.2 Physical channel parameters

| DPCH   |                                      | Physical 1                  | Physical 2                  |
|--------|--------------------------------------|-----------------------------|-----------------------------|
| Uplink | Modulation                           | QPSK                        | QPSK                        |
|        | Codes and time slots/ radio frame    | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 1384 bits                   | 2792 bits                   |
|        | TFCI code word/ radio frame          | 16 bits                     | 16 bits                     |
|        | TPC / radio frame                    | 2 * 2 bits                  | 2x 2 bits                   |
|        | SS / radio frame                     | 2 * 2 bits                  | 2x 2 bits                   |
|        | Puncturing Limit                     | 0.40                        | 0.76                        |

6.11.5.4.1.51b.2 Downlink

See clause 6.11.5.4.1.51.2.

6.11.5.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.52.1 Uplink

See clause 6.11.5.4.1.51.1.

6.11.5.4.1.52.2 Downlink

6.11.5.4.1.52.2.1 Transport channel parameters

6.11.5.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.52.2.1.4 TFCS

See clause 6.10.3.4.1.52.2.1.4.

#### 6.11.5.4.1.52.2.2 Physical channel parameters

|          | •                                    |                           |
|----------|--------------------------------------|---------------------------|
| DPCH     | Modulation                           | QPSK                      |
| Downlink | Codes and time slots/ radio frame    | SF 16 x 12 codes x 4 time |
|          |                                      | slots                     |
|          | Max. Number of data bits/radio frame | 4200 bits                 |
|          | TFCI code word / radio frame         | 16 bits                   |
|          | TPC / radio frame                    | 2 * 2 bits                |
|          | SS / radio frame                     | 2 * 2 bits                |
|          | Puncturing Limit                     | 0.52                      |

6.11.5.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:128 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.53.1 Uplink

6.11.5.4.1.53.1.1 Transport channel parameters

6.11.5.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.53.1.1.4 TFCS

See clause 6.10.3.4.1.53.1.1.4.

## 6.11.5.4.1.53.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                        | 8PSK                       |
|-------------|--------------------------------------|-----------------------------|----------------------------|
|             | Codes and time slots/ radio frame    | SF1 x 1 code x 4 time slots | SF1 x 1code x 2 time slots |
|             | Max. Number of data bits/radio frame | 5608 bits                   | 4188 bits                  |
|             | TFCI code word/ radio frame          | 16 bits                     | 24 bits                    |
|             | TPC/ radio frame                     | 2*2 bits                    | 2*3 bits                   |
|             | SS/ radio frame                      | 2*2 bits                    | 2*3 bits                   |
|             | Puncturing Limit                     | 0.72 (alt 0.68)             | 0.52 (alt 0.48)            |

6.11.5.4.1.53.2 Downlink

See clause 6.11.5.4.1.52.2.

6.11.5.4.1.54

Void.

6.11.5.4.1.55

Void.

6.11.5.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.11.5.4.1.56.1 Uplink

6.11.5.4.1.56.1.1 Transport channel parameters

6.11.5.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.1.1.1.

6.11.5.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.56.1.1.3 TFCS

See clause 6.10.3.4.1.56.1.1.3.

6.11.5.4.1.56.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS/ radio frame                        | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.84 (alt 0.76)             |

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6.11.5.4.1.56.2 Downlink

6.11.5.4.1.56.2.1 Transport channel parameters

6.11.5.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.2.1.1.

6.11.5.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.56.2.1.3 TFCS

See clause 6.10.3.4.1.56.2.1.3.

#### 6.11.5.4.1.56.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots/ radio frame      | SF16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                     |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.84                         |

6.11.5.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.11.5.4.1.57.1 Uplink

6.11.5.4.1.57.1.1 Transport channel parameters

6.11.5.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

6.11.5.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.57.1.1.3 TFCS

See clause 6.11.5.4.1.57.1.1.3.

#### 6.11.5.4.1.57.1.2 Physical channel parameters

| DPCH   |                                      | Physical 1                  |
|--------|--------------------------------------|-----------------------------|
| Uplink | Modulation                           | QPSK                        |
|        | Codes and time slots/ radio frame    | SF1 x 1 code x 2 time slots |
|        | Max. Number of data bits/radio frame | 2792 bits                   |
|        | TFCI code word/ radio frame          | 16 bits                     |
|        | TPC / radio frame                    | 2x 2 bits                   |
|        | SS / radio frame                     | 2x 2 bits                   |
|        | Puncturing Limit                     | 0.52 (alt. 0.44)            |

6.11.5.4.1.57.2 Downlink

6.11.5.4.1.57.2.1 Transport channel parameters

6.11.5.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

See clause 6.10.3.4.1.57.2.1.1.

6.11.5.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.57.2.1.3 TFCS

See clause 6.10.3.4.1.57.2.1.3.

6.11.5.4.1.57.2.2 Physical channel parameters

| DPCH     | Modulation                           | QPSK                        |
|----------|--------------------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame    | SF1 x 1 code x 2 time slots |
|          | Max. Number of data bits/radio frame | 2792 bits                   |
|          | TFCI code word/ radio frame          | 16 bits                     |
|          | TPC/ radio frame                     | 2*2 bits                    |
|          | SS/ radio frame                      | 2*2 bits                    |
|          | Puncturing Limit                     | 0.52                        |

6.11.5.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.58.1 Uplink

6.11.5.4.1.58.1.1 Transport channel parameters

6.11.5.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See 6.10.3.4.1.58.1.1.1.

6.11.5.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.58.1.1.4 TFCS

See clause 6.10.3.4.1.58.1.1.4.

## 6.11.5.1.58.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                        |
|-------------|----------------------------------------|-----------------------------|
|             | Codes and time slots/ frame            | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x 2 bits                   |
|             | SS / radio frame                       | 2x 2 bits                   |
|             | Puncturing Limit                       | 0.60 (alt 0.56)             |

6.11.5.4.1.58.2 Downlink

6.11.5.4.1.58.2.1 Transport channel parameters

6.11.5.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB See clause 6.10.3.4.1.58.2.1.1.

6.10.3.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.58.2.1.4 TFCS

See clause 6.10.3.4.1.58.2.1.4.

#### 6.11.5.4.1.58.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                         |
|----------|----------------------------------------|------------------------------|
| Downlink | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 1384 bits                    |
|          | TFCI code word / radio frame           | 16 bits                      |
|          | TPC / radio frame                      | 2x 2 bits                    |
|          | SS / radio frame                       | 2x 2 bits                    |
|          | Puncturing Limit                       | 0.44                         |

6.11.5.4.1.59 Reserved for future use

6.11.5.4.1.60 Reserved for future use

6.11.5.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background /

UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.61.1 Uplink

6.11.5.4.1.61.1.1 Transport channel parameters

6.11.5.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.61.1.1.1.

 $6.10.3.4.1.61.1.1.2 \qquad \text{Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB}$ 

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.61.1.1.4 TFCS

See clause 6.10.3.4.1.61.1.1.4.

#### 6.11.5.4.1.61.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                         |
|-------------|----------------------------------------|------------------------------|
|             | Codes and time slots / radio frame     | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x 2 bits                    |
|             | SS / radio frame                       | 2x 2 bits                    |
|             | Puncturing Limit                       | 0.84 (alt 0.80)              |

6.11.5.4.1.61.2 Downlink

6.11.5.4.1.61.2.1 Transport channel parameters

6.11.5.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.61.2.1.1.

6.11.5.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.61.2.1.4 TFCS

See clause 6.10.3.4.1.61.2.1.4.

6.11.5.4.1.61.2.2 Physical channel parameters

| DPCH     | Modulation                             | QPSK                          |
|----------|----------------------------------------|-------------------------------|
| Downlink | Codes and time slots / radio frame     | SF 16 x 4 code x 2 time slots |
|          | Max. Number of data bits / radio frame | 680 bits                      |
|          | TFCI code word / radio frame           | 16 bits                       |
|          | TPC / radio frame                      | 2x 2 bits                     |
|          | SS / radio frame                       | 2x 2 bits                     |
|          | Puncturing Limit                       | 0.84                          |

6.11.5.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.5.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.1.1 Uplink

6.11.5.4.2.1.1.1 Transport channel parameters

6.11.5.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2.

6.11.5.4.2.1.1.1.3 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.3.

6.11.5.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRBs for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4.

# 6.11.5.4.2.1.1.2 Physical channel parameters

#### 6.11.5.4.2.1.1.2.1 Physical channel parameters for PUSCH

| PUSCH | Modulation                           | QPSK                         |
|-------|--------------------------------------|------------------------------|
|       | Codes and time slots/ radio frame    | SF 1 x 1 code x 2 time slots |
|       | Max. Number of data bits/radio frame | 2792 bits                    |
|       | TFCI code word / radio frame         | 16 bits                      |
|       | TPC / radio frame                    | 2 * 2 bits                   |
|       | SS / radio frame                     | 2 * 2 bits                   |
|       | Puncturing Limit                     | 0.88                         |

6.11.5.4.2.1.1.2.2 Physical channel parameter for PRACH.

See clause 6.11.5.4.5.1.2.

6.11.5.4.2.1.2 Downlink

6.11.5.4.2.1.2.1 Transport channel parameters

6.11.5.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.2.1.2.Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.1.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.3.

6.11.5.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

## 6.11.5.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

| Higher  | RAB/signalling RB  | SRB#0                          | SRB#1       | SRB#2       | SRB#3           | SRB#4       | SRB#5       | SRB#6       |
|---------|--------------------|--------------------------------|-------------|-------------|-----------------|-------------|-------------|-------------|
| layer   | User of Radio      | RRC                            | RRC         | RRC         | NAS_DT          | NAS_DT      | RRC         | RRC         |
|         | Bearer             |                                |             |             | High prio       | Low prio    |             |             |
| RLC     | Logical channel    | CCCH                           | DCCH        | DCCH        | DCCH            | DCCH        | SHCCH       | BCCH        |
|         | type               |                                |             |             |                 |             |             |             |
|         | RLC mode           | UM                             | UM          | AM          | AM              | AM          | UM          | TM          |
|         | Payload sizes, bit | 160                            | 136 or      | 128         | 128             | 128         | 160         | 168         |
|         |                    |                                | 120*        |             |                 |             |             |             |
|         | Max data rate, bps | 32000 (alt.                    | 27200 or    | 25600       | 25600           | 25600       | 32000       | 33600       |
|         |                    | 16000)                         | 24000 (alt. | (alt.12800) | (alt.12800)     | (alt.12800) | (alt.16000) | (alt.16000) |
|         |                    |                                | 13600       |             |                 |             |             |             |
|         |                    |                                | or12000)    |             |                 |             |             |             |
|         | RLC header, bit    | 8                              | 8           | 16          | 16              | 16          | 8           | 0           |
| MAC     | MAC header, bit    | 3                              | 27 or 43    | 27          | 27              | 27          | 3           | 3           |
|         | MAC multiplexing   | 7 logical channel multiplexing |             |             |                 |             |             |             |
| Layer 1 | TrCH type          |                                |             |             | FACH            |             |             |             |
|         | TB sizes, bit      | 171                            | 171         | 171         | 171             | 171         | 171         | 171         |
|         | TFS TF0, bits      |                                |             |             | 0x171           |             |             |             |
|         | TF1, bits          |                                |             |             | 1x171           |             |             |             |
|         | TF2, bits          | 2x171                          |             |             |                 |             |             |             |
|         | TF3, bits          | 3x171( alt. N/A)               |             |             |                 |             |             |             |
|         | TF4, bits          |                                |             |             | 1x171( alt. N/A | •           |             |             |
|         | TF5, bits          |                                |             |             | ,               | ,           |             |             |

| TF6, bits                                   |                   |                   |                   |                   |                   |                   |                   |
|---------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| TTI, ms                                     |                   |                   |                   | 20                |                   |                   |                   |
| Coding type                                 |                   |                   |                   | CC 1/2            |                   |                   |                   |
| CRC, bit                                    |                   |                   |                   | 16                |                   |                   |                   |
| Max number of bits/TTI after channel coding | 1528<br>(alt.764) |

<sup>\*</sup> MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

# 6.11.5.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

| Higher  | RAB/sig              | nalling RB          | RAB                               | SRB#0                                | SRB#1                                            | SRB#2                    | SRB#3                    | SRB#4                    | SRB#5                    | SRB#6                    |
|---------|----------------------|---------------------|-----------------------------------|--------------------------------------|--------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| layer   | User of<br>Bearer    | Radio               | Interactive/<br>Background<br>RAB | RRC                                  | RRC                                              | RRC                      | NAS_DT<br>High prio      | NAS_DT<br>Low prio       | RRC                      | RRC                      |
| RLC     | Logical type         | channel             | DTCH                              | CCCH                                 | DCCH                                             | DCCH                     | DCCH                     | DCCH                     | SHCCH                    | ВССН                     |
|         | RLC mo               | ode                 | AM                                | UM                                   | UM                                               | AM                       | AM                       | AM                       | UM                       | TM                       |
|         | Payload              | d sizes, bit        | 320                               | 160                                  | 136 or<br>120 (note)                             | 128                      | 128                      | 128                      | 160                      | 168                      |
|         | Max dat              | ta rate, bps        | 32000 (alt.<br>16000)             | 32000<br>(alt.<br>16000)             | 27200 or<br>24000<br>(alt.<br>13600 or<br>12000) | 25600<br>(alt.<br>12800) | 25600<br>(alt.<br>12800) | 25600<br>(alt.<br>12800) | 32000<br>(alt.<br>16000) | 33600<br>(alt.<br>16800) |
|         | AMD/UI<br>PDU he     | MD/TrD<br>ader, bit | 16                                | 8                                    | 8                                                | 16                       | 16                       | 16                       | 8                        | 0                        |
| MAC     | MAC he               | eader, bit          | 27                                | 3                                    | 27 or 43                                         | 27                       | 27                       | 27                       | 3                        | 3                        |
|         | MAC m                | ultiplexing         |                                   |                                      | 8 logid                                          | cal channe               | l multiplexin            | ng                       |                          |                          |
| Layer 1 | TrCH ty              |                     |                                   |                                      |                                                  |                          |                          |                          |                          |                          |
|         | TB size              |                     |                                   | 171, 363                             |                                                  |                          |                          |                          |                          |                          |
|         | TFS                  | TF0, bits           |                                   | 0x171                                |                                                  |                          |                          |                          |                          |                          |
|         |                      | TF1, bits           |                                   | 1x171                                |                                                  |                          |                          |                          |                          |                          |
|         |                      | TF2, bits           |                                   | 2x171                                |                                                  |                          |                          |                          |                          |                          |
|         |                      | TF3, bits           |                                   | 1x363                                |                                                  |                          |                          |                          |                          |                          |
|         |                      | TF4, bits           |                                   | 3x171 (alt N/A)                      |                                                  |                          |                          |                          |                          |                          |
|         |                      | TF5, bits           |                                   | 4x171 (alt. N/A)<br>2x363 (alt. N/A) |                                                  |                          |                          |                          |                          |                          |
|         | TF6, bits            |                     |                                   |                                      |                                                  | 2x363 (a)                |                          |                          |                          |                          |
|         | TTI, ms              |                     |                                   |                                      |                                                  |                          |                          |                          |                          |                          |
|         | Coding type CRC, bit |                     |                                   | CC ½<br>16                           |                                                  |                          |                          |                          |                          |                          |
|         | Max number of        |                     |                                   |                                      |                                                  | 1532(alt                 |                          |                          |                          |                          |
|         | bits/TTI             |                     |                                   |                                      |                                                  | .00 <u>2</u> (an         | 50,                      |                          |                          |                          |
|         | channe               | l coding            |                                   |                                      |                                                  |                          |                          |                          |                          |                          |

<sup>\*</sup> MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

# 6.11.5.4.2.1.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

#### 6.11.5.4.2.1.2.2 Physical channel parameters

#### 6.11.5.4.2.1.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Modulation                           | QPSK                     | 8PSK                        |
|-------|--------------------------------------|--------------------------|-----------------------------|
|       | Codes and time slots/ radio frame    | SF16 x 11 codes x 6 time | SF1 x 1 code x 4 time slots |
|       |                                      | slots                    |                             |
|       | Max. Number of data bits/radio frame | 5784 bits                | 6511 bits                   |
|       | TFCI code word/ radio frame          | 16 bits                  | 24 bits                     |
|       | TPC/ radio frame                     | 2*2 bits                 | 2*3 bits                    |
|       | SS/ radio frame                      | 2*2 bits                 | 2*3 bits                    |
|       | Puncturing Limit                     | 0.60                     | 0.68                        |

## 6.11.5.4.2.1.2.2.2 Physical channel parameters for SCCPCH

#### Physical channel parameters for SCCPCH without DTCH 6.11.3.4.2.1.2.2.2.1

| S-CCPCH | Modulation                           | QPSK                          |
|---------|--------------------------------------|-------------------------------|
|         | Codes and time slots/ radio frame    | SF16 x 5 codes x 2 time       |
|         |                                      | slots(alt. SF16 x 2 codes x 2 |
|         |                                      | time slot)                    |
|         | Max. Number of data bits/radio frame | 864 bits (alt. 344 bits)      |
|         | TFCI code word/ radio frame          | 16 bits                       |
|         | TP(alt. 8 bits)C/ radio frame        | 0 bits                        |
|         | SS/ radio frame                      | 0 bits                        |
|         | Puncturing Limit                     | 1(alt. 0.88)                  |

#### 6.11.3.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

| S-CCPCH | Modulation                           | QPSK                          |
|---------|--------------------------------------|-------------------------------|
|         | Codes and time slots/ radio frame    | SF16 x 5 codes x 2 time slots |
|         |                                      | (alt. SF16 x 2 codes x 2 time |
|         |                                      | slot)                         |
|         | Max. Number of data bits/radio frame | 864 bits (alt. 336 bits)      |
|         | TFCI code word/ radio frame          | 16 bits                       |
|         | TPC/ radio frame                     | 0 bits                        |
|         | SS/ radio frame                      | 0 bits                        |
|         | Puncturing Limit                     | 1(alt. 0.84)                  |

6.11.5.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.2.1 Uplink

See clause 6.11.5.4.2.1.1.

Downlink 6.11.5.4.2.2.2

6.11.5.4.2.2.2.1 Transport channel parameters

6.11.5.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.2.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.2.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.3.

6.11.5.4.2.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.2.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.2.2 Physical channel parameters

6.11.5.4.2.2.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Modulation                           | QPSK                         |
|-------|--------------------------------------|------------------------------|
|       | Codes and time slots/ radio frame    | SF 1 x 1 code x 6 time slots |
|       | Max. Number of data bits/radio frame | 8424 bits                    |
|       | TFCI code word / radio frame         | 16 bits                      |
|       | TPC / radio frame                    | 2 * 2 bits                   |
|       | SS / radio frame                     | 2 * 2 bits                   |
|       | Puncturing Limit                     | 0.60                         |

6.11.5.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.5.4.2.1.2.2.2.6.11.5.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.3.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.3.2 Downlink

6.11.5.4.2.3.2.1 Transport channel parameters

6.11.5.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher<br>Layer | RAB/Signalling RB                                             | RAB                | SRB#5   |
|-----------------|---------------------------------------------------------------|--------------------|---------|
| RLC             | Logical channel type                                          | DTCH               | SHCCH   |
|                 | RLC mode                                                      | AM                 | UM      |
|                 | Payload sizes, bit                                            | 1704               | 160     |
|                 | Max data rate, bps                                            | 2048000            | 16000   |
|                 | RLC header, bit                                               | 16                 | 8       |
| MAC             | MAC header, bit                                               | 0                  | 0       |
|                 | MAC multiplexing                                              | N/A                | N/A     |
| Layer 1         | TrCH type                                                     | DSCH               | DSCH    |
|                 | TB sizes, bit                                                 | 1720               | 168     |
|                 | TFS TF0, bits                                                 | 0x1720             | 0x168   |
|                 | TF1, bits                                                     | 1x1720             | 1x168   |
|                 | TF2, bits                                                     | 2x1720             | N/A     |
|                 | TF3, bits                                                     | 4x1720             | N/A     |
|                 | TF4, bits                                                     | 8x1720             | N/A     |
|                 | TF5, bits                                                     | 12x1720            | N/A     |
|                 | TF6, bits                                                     | N/A (alt. 16x1720) | N/A     |
|                 | TF7, bits                                                     | N/A (alt. 20x1720) | N/A     |
|                 | TF8, bits                                                     | N/A (alt. 24x1720) | N/A     |
|                 | TTI, ms                                                       | 10 (alt. 20)       | 10      |
|                 | Coding type                                                   | No Coding          | CC 1/2  |
|                 | CRC, bit                                                      | 24                 | 16      |
|                 | Max number of bits/TTI after channel coding                   | 20928 (alt. 41856) | 384     |
|                 | Downlink: Max number of bits/radio frame before rate matching | 20928 (alt. 20928) | 384     |
|                 | RM attribute                                                  | 135-175            | 180-220 |

6.11.5.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2.

## 6.11.5.4.2.3.2.1.3 TFCS for DSCH

| TFCS size | 22 (alt.34)                                                                                |
|-----------|--------------------------------------------------------------------------------------------|
| TFCS      | (2048 kbps RAB, SHCCH, SRBs for DCCH)=                                                     |
|           | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, |
|           | TF0, TF0),                                                                                 |
|           | (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),       |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, |
|           | TF0, TF1),                                                                                 |
|           | (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),       |
|           | (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), |
|           | (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0),                        |
|           | (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, |
|           | TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0),                                               |
|           | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, |
|           | TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1),                              |
|           | (TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,      |
|           | TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1))                                               |

For better understanding of the TFCS please note that the following combinations are not included in the table above: (TF5, TF1, TF0), (TF5, TF1, TF1), (TF8, TF1, TF0), (TF8, TF1, TF1)

6.11.5.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.3.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.3.2.2 Physical channel parameters

6.11.5.4.2.3.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Modulation                           | 8PSK                         |
|-------|--------------------------------------|------------------------------|
|       | Codes and time slots/ radio frame    | SF1 x 1 code x 10 time slots |
|       | Max. Number of data bits/radio frame | 21084 bits                   |
|       | TFCI code word/ radio frame          | 24 bits                      |
|       | TPC/ radio frame                     | 2*3 bits                     |
|       | SS/ radio frame                      | 2*3 bits                     |
|       | Puncturing Limit                     | 1                            |

6.11.5.4.2.3.2.2.2 Physical channel parameters for S-CCPCH

See clause 6.11.5.4.2.1.2.2.2.

| 6.11.5.4.3 | Combinations on | <b>BDSCH</b> | SCCPCH D  | PCH   | PHISCH an | 4 PRACH |
|------------|-----------------|--------------|-----------|-------|-----------|---------|
| 0.11.5.4.5 | Compliations on | FUSUH.       | SCOPUR. D | л Оп. | FUSCH all | u FNACH |

6.11.5.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.1.1 Uplink

6.11.5.4.3.1.1.1 Transport channel parameters

6.11.5.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.3.1.1.1.5.

6.11.5.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.3.1.1.1.6.

6.11.5.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.11.5.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.11.5.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.11.5.4.2.1.1.2.

6.11.5.4.3.1.2 Downlink

6.11.5.4.3.1.2.1 Transport channel parameters

6.11.5.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.3.1.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.1.2.1.5.

# 6.11.5.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| Higher  | RAB/Signa            | alling RB              | SRB#0         | SRB#5                   | SRB#6 |  |
|---------|----------------------|------------------------|---------------|-------------------------|-------|--|
| layer   | User of Ra           | dio Bearer             | RRC           | RRC                     | RRC   |  |
|         | Logical channel type |                        | CCCH SHCCH BC |                         | BCCH  |  |
|         | RLC mode             | !                      | UM            | UM                      | TM    |  |
| RLC     | Payload si           | zes, bit               | 160           | 160                     | 168   |  |
|         | Max data r           | ate, bps               | 32000         | 32000                   | 33600 |  |
|         | RLC head             | er, bit                | 8             | 8                       | 0     |  |
| MAC     | MAC head             | er, bit                |               | 3                       |       |  |
| WAC     | MAC multi            | plexing                | 3 lc          | gical channel multiplex | king  |  |
|         | TrCH type            |                        |               | FACH                    |       |  |
|         | TB sizes, bit        |                        | 171           |                         |       |  |
|         |                      | TF0, bits              | 0x171         |                         |       |  |
|         |                      | TF1, bits              | 1x171         |                         |       |  |
|         | TFS                  | TF2, bits              | 2x171         |                         |       |  |
|         |                      | TF3, bits              | 3x171         |                         |       |  |
| Layer 1 | TF4, bits            |                        | 4x171         |                         |       |  |
|         | TTI, ms              |                        | 20            |                         |       |  |
|         | Coding typ           | е                      | CC 1/2        |                         |       |  |
|         | CRC, bit             |                        | 16            |                         |       |  |
|         |                      | er of bits/TTI after   | 1528          |                         |       |  |
|         | channel co           |                        |               |                         |       |  |
|         |                      | er of bits/radio frame |               | 764                     |       |  |
|         | before rate matching |                        |               |                         |       |  |

#### 6.11.5.4.3.1.2.1.7 TFCS for FACH

| TFCS size | 5                           |
|-----------|-----------------------------|
| TFCS      | FACH = TF0, TF1,TF2,TF3,TF4 |

# 6.11.5.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

#### 6.11.5.4.3.2.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.2.2 Downlink

6.11.5.4.3.2.2.1 Transport channel parameters

6.11.5.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.1.4.1.4.2.1.1.

6.11.5.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.3.2.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.2.2.1.5.

6.11.5.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.2.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.2.2.2.

Physical channel parameters for downlink for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.3.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.3.2 Downlink

6.11.5.4.3.3.2.1 Transport channel parameters

6.11.5.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.5.4.2.3.2.1.2.

6.11.5.4.3.3.2.1.5 TFCS for DSCH

See clause 6.11.5.4.2.3.2.1.4.

6.11.5.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.3.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.3.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.11.5.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.4 Combinations on SCCPCH

6.11.5.4.4.1 Stand-alone signalling RB for PCCH

6.11.5.4.4.1.1 Transport channel parameters

6.11.5.4.4.1.1.1 Transport channel parameter of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.1.1.2 TFCS

See clause 6.10.3.4.4.1.1.2.

# 6.11.5.4.4.1.2 Physical channel parameters

| S-CCPCH       | Modulation                                                                               | QPSK                          |  |  |
|---------------|------------------------------------------------------------------------------------------|-------------------------------|--|--|
|               | Codes and time slots/ radio frame                                                        | SF16 x 2 codes x 2 time slots |  |  |
|               |                                                                                          | (alt. SF16 x 1 codes x 2 time |  |  |
|               |                                                                                          | slots)                        |  |  |
|               | Max. Number of data bits/radio frame                                                     | 344 bits (alt. 168 bits)      |  |  |
|               | TFCI code word/ radio frame                                                              | 8 bits                        |  |  |
|               | TPC/ radio frame                                                                         | 0 bits                        |  |  |
|               | SS/ radio frame                                                                          | 0 bits                        |  |  |
|               | Puncturing Limit                                                                         | 1 (alt. 0.84)                 |  |  |
| Note alt Punc | ote: alt. Puncturing Limit applies when alt, payload sizes and alt, codes and time slots |                               |  |  |

Note: alt. Puncturing Limit applies when alt. payload sizes and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2.1 Transport channel parameters

6.11.5.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

See clause 6.10.3.4.4.2.1.1.

6.11.5.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| Higher  | RAB/signal                                          | ling RB    | SRB#0                          | SRB#1                                        | SRB#2                    | SRB#3                    | SRB#4                    | SRB#5                    |
|---------|-----------------------------------------------------|------------|--------------------------------|----------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| layer   | User of Rad                                         | dio Bearer | RRC                            | RRC                                          | RRC                      | NAS_DT<br>High prio      | NAS_DT<br>Low prio       | RRC                      |
| RLC     | Logical cha                                         | nnel type  | CCCH                           | DCCH                                         | DCCH                     | DCCH                     | DCCH                     | BCCH                     |
|         | RLC mode                                            |            | UM                             | UM                                           | AM                       | AM                       | AM                       | TM                       |
|         | Payload siz                                         | es, bit    | <u>160</u>                     | 13 <u>6</u> or<br>1 <u>20</u>                | 12 <u>8</u>              | <u>128</u>               | <u>128</u>               | <u>168</u>               |
|         | Max data ra                                         | ate, bps   | 32000<br>(alt.<br>16000)       | 27200 or<br>2400 (alt.<br>24000 or<br>12000) | 25600<br>(alt.<br>12800) | 25600<br>(alt.<br>12800) | 25600<br>(alt.<br>12800) | 33600<br>(alt.<br>16800) |
|         | RLC heade                                           | r, bit     | 8                              | 8                                            | 16                       | 16                       | 16                       | 0                        |
| MAC     | MAC heade                                           | er, bit    | 3                              | 27 or 43                                     | 27                       | 27                       | 27                       | 3                        |
| IVIAC   | MAC multip                                          | lexing     | 6 logical channel multiplexing |                                              |                          |                          |                          |                          |
| Layer 1 | TrCH type                                           |            | FACH                           |                                              |                          |                          |                          |                          |
|         | TB sizes, bit                                       |            | 171                            |                                              |                          |                          |                          |                          |
|         |                                                     | TF0, bits  |                                |                                              | 0x <sup>2</sup>          |                          |                          |                          |
|         |                                                     | TF1, bits  | 1x171                          |                                              |                          |                          |                          |                          |
|         | TFS                                                 | TF2, bits  | 2x171                          |                                              |                          |                          |                          |                          |
|         |                                                     | TF3, bits  | 3x171 (alt. N/A)               |                                              |                          |                          |                          |                          |
|         |                                                     | TF4, bits  | 4x171 (alt. N/A)               |                                              |                          |                          |                          |                          |
|         | TTI, ms                                             |            |                                |                                              |                          | 0                        |                          |                          |
|         | Coding type                                         | 9          |                                |                                              |                          | 1/2                      |                          |                          |
|         | CRC, bit                                            |            | 16                             |                                              |                          |                          |                          |                          |
|         | Max number of bits/TTI before rate matching         |            | 1528 (alt. 764)                |                                              |                          |                          |                          |                          |
|         | Max number of bits/radio frame before rate matching |            |                                |                                              | 764 (a                   | lt. 382)                 |                          |                          |
|         | RM attribute                                        | е          |                                |                                              | 200                      | -240                     |                          |                          |

<sup>\*</sup> MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

6.11.5.4.4.2.1.3 TFCS

See clause 6.10.3.4.4.2.1.3.

#### 6.11.5.4.4.2.2 Physical channel parameters

| SCCPCH       | Modulation                               | QPSK                              |
|--------------|------------------------------------------|-----------------------------------|
|              | Codes and time slots/ radio frame        | SF 16 x 9 codes x 2 time slots    |
|              |                                          | (alt. SF16 x 4 codes x 2 time     |
|              |                                          | slots)                            |
|              | Max. Number of data bits/radio frame     | 1568 bits (alt. 688 bits)         |
|              | TFCI code word / radio frame             | 16 bits                           |
|              | TPC / radio frame                        | 0 bits                            |
|              | SS / radio frame                         | 0 bits                            |
|              | Puncturing Limit                         | 0.52 (alt. 0.48)                  |
| Notes of Dur | acturing Limit applies when alt TECC and | alt and an and time alote / radio |

Note: alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2a.1 Transport channel parameters

6.11.5.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

See clause 6.10.3.4.2a.1.1.

6.11.5.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2a.1.3 TFCS

See clause 6.10.3.4.4.2a.1.3.

6.11.5.4.4.2a.2 Physical channel parameters

See clause 6.11.5.4.4.2.2.

6.11.5.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2b.1 Transport channel parameters

6.11.5.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2b.1.2 TFCS

See clause 6.10.3.4.4.2b.1.2.

#### 6.10.3.4.4.2b.2 Physical channel parameters

| Modulation                           | QPSK                                                                                                                                       |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Codes and time slots/ radio frame    | SF 16 x 4 codes x 2 time slots                                                                                                             |
|                                      | (alt. SF16 x 2 codes x 2 time                                                                                                              |
|                                      | slots)                                                                                                                                     |
| Max. Number of data bits/radio frame | 688 bits (alt. 344 bits)                                                                                                                   |
| TFCI code word / radio frame         | 16 bits (alt. 8 bits)                                                                                                                      |
| TPC / radio frame                    | 0 bits                                                                                                                                     |
| SS / radio frame                     | 0 bits                                                                                                                                     |
| Puncturing Limit                     | 0.88                                                                                                                                       |
|                                      | Codes and time slots/ radio frame  Max. Number of data bits/radio frame  TFCI code word / radio frame  TPC / radio frame  SS / radio frame |

Note: alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3.1 Transport channel parameters

6.11.5.4.4.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.1.

6.11.5.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3.1.4 TFCS

See clause 6.10.3.4.4.3.1.4.

#### 6.11.5.4.4.3.2 Physical channel parameters

| S-CCPCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Modulation                           | QPSK                           |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Codes and time slots/ radio frame    | SF16 x 10 codes x 2 time       |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | slots (alt. SF16 x 6 codes x 2 |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | time slots)                    |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Max. Number of data bits/radio frame | 1744 bits (alt. 1040 bits)     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TFCI code word/ radio frame          | 16 bits                        |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TPC/ radio frame                     | 0 bits                         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SS/ radio frame                      | 0 bits                         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Puncturing Limit                     | 0.48 (alt. 0.52)               |  |  |
| No. 10 December 2011 10 |                                      |                                |  |  |

Note: alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3a.1 Transport channel parameters

6.11.5.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3a.1.3 TFCS

See clause 6.10.3.4.4.3a.1.3.

## 6.11.5.4.4.3a.2 Physical channel parameters

| Modulation                           | QPSK                                                                                                                                       |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Codes and time slots/ radio frame    | SF 16 x 4 codes x 2 time slots                                                                                                             |
|                                      | (alt. SF16 x 2 codes x 2 time                                                                                                              |
|                                      | slots)                                                                                                                                     |
| Max. Number of data bits/radio frame | 688 bits (alt. 336 bits)                                                                                                                   |
| TFCI code word / radio frame         | 16 bits                                                                                                                                    |
| TPC / radio frame                    | 0 bits                                                                                                                                     |
| SS / radio frame                     | 0 bits                                                                                                                                     |
| Puncturing Limit                     | 0.60 (alt. 0.52)                                                                                                                           |
|                                      | Codes and time slots/ radio frame  Max. Number of data bits/radio frame  TFCI code word / radio frame  TPC / radio frame  SS / radio frame |

Note: Alt. applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.

6.11.5.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.11.5.4.4.4.1 Transport channel parameters

6.11.5.4.4.4.1.1 Transport channel parameters of RB for CTCH

See clause 6.10.3.4.4.4.1.1.

# 6.11.5.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

| Higher layer | RAB/signalling  | RB                   | SRB#0             | SRB#5        |  |
|--------------|-----------------|----------------------|-------------------|--------------|--|
|              | User of Radio E | Bearer               | RRC               | RRC          |  |
| RLC          | Logical channe  | type                 | CCCH              | BCCH         |  |
|              | RLC mode        |                      | UM                | TM           |  |
|              | Payload sizes,  | bit                  | 160               | 168          |  |
|              | Max data rate,  | ops                  | 16000             | 16800        |  |
|              | AMD/UMD/TrD     | PDU header, bit      | 8                 | 0            |  |
| MAC          | MAC header, b   | it                   | 3                 | 3            |  |
| IVIAC        | MAC multiplexi  | ng                   | 2 logical channel | multiplexing |  |
| Layer 1      | TrCH type       |                      | FACH              |              |  |
|              | TB sizes, bit   |                      | 171               |              |  |
|              |                 | TF0, bits 0x171      |                   |              |  |
|              | TFS             | TF1, bits            | 1x171             |              |  |
|              |                 | TF2, bits            | 2x171             |              |  |
|              | TTI, ms         |                      | 20                |              |  |
|              | Coding type     |                      | CC 1/3            |              |  |
|              | CRC, bit        |                      | 16                |              |  |
|              | Max number of   | bits/TTI before rate | 1146              |              |  |
|              | matching        |                      |                   |              |  |
|              |                 | bits/radio frame     | 573               |              |  |
|              | before rate mat | ching                |                   |              |  |
|              | RM attribute    |                      | 200-24            | 0            |  |

6.11.5.4.4.4.1.3 TFCS

See clause 6.10.3.4.4.4.1.3.

# 6.11.5.4.4.4.2 Physical channel parameters

| SCCPCH           | Modulation                           | QPSK                           |
|------------------|--------------------------------------|--------------------------------|
|                  | Codes and time slots/ radio frame    | SF 16 x 4 codes x 2 time slots |
|                  | Max. Number of data bits/radio frame | 688 bits                       |
|                  | TFCI code word / radio frame         | 16 bits                        |
|                  | TPC / radio frame                    | 0 bits                         |
| SS / radio frame |                                      | 0 bits                         |
|                  | Puncturing Limit                     | 0.52                           |

6.11.5.4.5 Combinations on PRACH

6.11.5.4.5.1 SRB for CCCH + SRBs for DCCH

6.11.5.4.5.1.1 Transport channel parameters

6.11.5.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRBs for DCCH

See clause 6.10.3.4.5.1.1.1.

6.11.5.4.5.1.1.2 TFCS

See clause 6.10.3.4.5.1.1.2.

## 6.11.5.4.5.1.2 Physical channel parameters

| PRACH | Modulation                           | QPSK                         |
|-------|--------------------------------------|------------------------------|
|       | Codes and time slots/ radio frame    | SF 8 x 1 code x 2 time slots |
|       | Max. Number of data bits/radio frame | 352 bits                     |
|       | TPC / radio frame                    | 0 bits                       |
|       | SS / radio frame                     | 0 bits                       |
|       | Puncturing Limit                     | 0.88                         |

6.11.5.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH

6.11.5.4.5.2.1 Transport channel parameters

6.11.5.4.5.2.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

| Higher | RAB/signalling RB           | RAB                               | SRB#0 | SRB#1 | SRB#2 | SRB#3                   | SRB#4                  |
|--------|-----------------------------|-----------------------------------|-------|-------|-------|-------------------------|------------------------|
| layer  | User of Radio Bearer        | Interactive/<br>Background<br>RAB | RRC   | RRC   | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC    | Logical channel type        | DTCH                              | CCCH  | DCCH  | DCCH  | DCCH                    | DCCH                   |
|        | RLC mode                    | AM                                | TM    | UM    | AM    | AM                      | AM                     |
|        | Payload sizes, bit          | 128                               | 168   | 136   | 128   | 128                     | 128                    |
|        | Max data rate, bps          | 12800                             | 16800 | 13600 | 12800 | 12800                   | 12800                  |
|        | AMD/UMD/TrD PDU header, bit | 16                                | 0     | 8     | 16    | 16                      | 16                     |

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| Higher  | RAB/signalling RB                                          | RAB                               | SRB#0 | SRB#1           | SRB#2           | SRB#3                   | SRB#4                  |  |  |
|---------|------------------------------------------------------------|-----------------------------------|-------|-----------------|-----------------|-------------------------|------------------------|--|--|
| layer   | User of Radio Bearer                                       | Interactive/<br>Background<br>RAB | RRC   | RRC             | RRC             | NAS_DT<br>High priority | NAS_DT<br>Low priority |  |  |
| MAC     | MAC header, bit                                            | 26                                | 2     | 26              | 26              | 26                      | 26                     |  |  |
|         | MAC multiplexing                                           |                                   |       | 6 logical chann | el multiplexing |                         |                        |  |  |
| Layer 1 | TrCH type                                                  |                                   |       | RA              | CH              |                         |                        |  |  |
|         | TB sizes, bit                                              |                                   |       | 17              | 70              |                         |                        |  |  |
|         | TFS TF0, bits                                              |                                   | 1x170 |                 |                 |                         |                        |  |  |
|         | TTI, ms                                                    | 10                                |       |                 |                 |                         |                        |  |  |
|         | Coding type                                                | CC 1/2                            |       |                 |                 |                         |                        |  |  |
|         | CRC, bit                                                   | 16                                |       |                 |                 |                         |                        |  |  |
|         | Max number of bits/TTI after channel coding                | 388                               |       |                 |                 |                         |                        |  |  |
|         | Max number of bits/<br>Radio frame before<br>rate matching |                                   |       | 38              | 38              |                         |                        |  |  |

#### 6.11.5.4.5.2.1.2 TFCS

| TFCS size | 1                                                       |
|-----------|---------------------------------------------------------|
| TFCS      | 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0) |

## 6.11.5.4.5.2.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

6.11.5.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.11.5.4.5.3.1 Transport channel parameters

6.11.5.4.5.3.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

| Higher | RAB/signalling RB              | RAB                               | RAB                               | SRB#0 | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|--------|--------------------------------|-----------------------------------|-----------------------------------|-------|-------|-------|---------------------|--------------------|
| layer  | User of Radio<br>Bearer        | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC   | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC    | Logical channel type           | DTCH                              | DTCH                              | CCCH  | DCCH  | DCCH  | DCCH                | DCCH               |
|        | RLC mode                       | AM                                | AM                                | TM    | UM    | AM    | AM                  | AM                 |
|        | Payload sizes, bit             | 128                               | 128                               | 168   | 136   | 128   | 128                 | 128                |
|        | Max data rate, bps             | 12800                             | 12800                             | 16800 | 13600 | 12800 | 12800               | 12800              |
|        | AMD/UMD/TrD<br>PDU header, bit | 16                                | 16                                | 0     | 8     | 16    | 16                  | 16                 |

| Higher | RAB/signalling RB | RAB               | RAB               | SRB#0     | SRB#1        | SRB#2    | SRB#3     | SRB#4    |
|--------|-------------------|-------------------|-------------------|-----------|--------------|----------|-----------|----------|
| layer  | User of Radio     | Interactive/      | Interactive/      | RRC       | RRC          | RRC      | NAS_DT    | NAS_DT   |
|        | Bearer            | Background<br>RAB | Background<br>RAB |           |              |          | High prio | Low prio |
| MAC    | MAC header, bit   | 26                | 26                | 2         | 26           | 26       | 26        | 26       |
|        | MAC multiplexing  |                   |                   | 7 logical | channel mult | iplexing |           |          |
| Layer  | TrCH type         |                   |                   |           | RACH         |          |           |          |
| 1      | TB sizes, bit     |                   |                   |           | 170          |          |           |          |
|        | TFS TF0, bits     |                   |                   |           | 1x170        |          |           |          |
|        | TTI, ms           |                   | 10                |           |              |          |           |          |
|        | Coding type       | CC ½              |                   |           |              |          |           |          |
|        | CRC, bit          | 16                |                   |           |              |          |           |          |
|        | Max number of     | 388               |                   |           |              |          |           |          |
|        | bits/TTI after    |                   |                   |           |              |          |           |          |
|        | channel coding    |                   |                   |           |              |          |           |          |
|        | Max number of     | 388               |                   |           |              |          |           |          |
|        | bits/ Radio frame |                   |                   |           |              |          |           |          |
|        | before rate       |                   |                   |           |              |          |           |          |
|        | matching          |                   |                   |           |              |          |           |          |

#### 6.11.5.4.5.3.1.2 TFCS

| TFCS size | 1                                                                          |
|-----------|----------------------------------------------------------------------------|
| TFCS      | 12.8 kbps PS RAB + 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0) |

#### 6.11.5.4.5.3.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

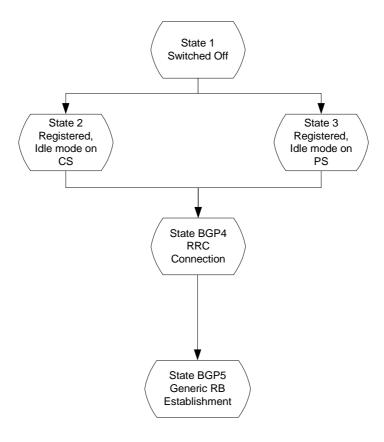
# 7 Generic setup procedures

# 7.1 Basic Generic Procedures

# 7.1.1 UE Test States for Basic Generic Procedures

This clause describes a set of procedures for use by test cases in TS 34.123-1. Describing these procedures in a generic manner allows their use in many test cases. By using these procedures, test case descriptions need not detail signalling that is not relevant to its purpose or understanding.

The procedures are based upon default values that are adapted to the most common usage. Test cases that require values different from the default will, when specifying the Basic Generic Procedure, also specify those parameters that are modified.



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Figure 7.1.1: UE Test States for Basic Generic Procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.1.1.

Table 7.1.1: The UE states

|            |                          | RRC       | CC   | MM          | SM       | GMM         |
|------------|--------------------------|-----------|------|-------------|----------|-------------|
| State 1    | Power OFF                |           | null | detached    | inactive | detached    |
| State 2    | CS Registered Idle Mode  | idle      | null | idle        | inactive | detached    |
| State 3    | PS Registered Idle Mode  | idle      | null | detached    | inactive | idle        |
| State BGP4 | RRC Connection           | connected | null | as previous | inactive | as previous |
| State BGP5 | Generic RB Establishment | connected | null | as previous | inactive | as previous |

# 7.1.2 Mobile terminated establishment of Radio Resource Connection

#### 7.1.2.1 Initial conditions

System Simulator:

The system simulator will start from the default idle state. Parameters will the default parameters for a single cell, unless otherwise specified in the test case.

User Equipment:

Unless otherwise specified in the test case, the UE will be in the following state:

- Default test operating conditions.

- The UE shall have followed the generic registration procedure for CS or PS operations, and will be in Idle Mode, Camped-on (State 2 or State 3).

# 7.1.2.2 Definition of system information messages

The default system information messages are used.

## 7.1.2.3 Procedure

- The SS sends a PAGING TYPE 1 message to the UE on the appropriate paging block, and with the IE "Paging record" containing the TMSI or P-TMSI of the UUT.
- The SS receives an RRC CONNECTION REQUEST message from the UE.
- On receipt of the RRC CONNECTION REQUEST the SS shall transmit a RRC CONNECTION SETUP message to the UE. The SS shall wait for the receipt of an RRC CONNECTION SETUP COMPLETE message from the UE.
- On receipt of an RRC CONNECTION SETUP COMPLETE message, the procedure is complete.

| Step | Direction     | Message                              | Comments                  |
|------|---------------|--------------------------------------|---------------------------|
|      | UE SS         |                                      |                           |
| 1    | <b>←</b>      | SYSTEM INFORMATION (BCCH)            | Default SI messages       |
| 2    | <b>←</b>      | PAGING TYPE 1 (PCCH)                 | Sent on appropriate cycle |
| 3    | $\rightarrow$ | RRC CONNECTION REQUEST (CCCH)        | RRC                       |
| 4    | <b>←</b>      | RRC CONNECTION SETUP (CCCH)          | RRC                       |
| 5    | $\rightarrow$ | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                       |

# 7.1.2.4 Specific message contents

## 7.1.2.4.1 PAGING TYPE 1

This message is sent from the SS to the UE, using the TM RLC SAP, on the PCCH logical channel:

|                                                                                                                                                                                                                        | Information Element     |               |                    |                                                           |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|--------------------|-----------------------------------------------------------|--|--|--|--|
| Message Type                                                                                                                                                                                                           | PAGING TYPE 1           |               |                    |                                                           |  |  |  |  |
| UE Information eleme                                                                                                                                                                                                   | JE Information elements |               |                    |                                                           |  |  |  |  |
| Paging record list                                                                                                                                                                                                     | Paging record           | CN originator | Paging cause       | Terminating Speech Call (note)                            |  |  |  |  |
|                                                                                                                                                                                                                        |                         |               | CN domain identity | CS domain (note)                                          |  |  |  |  |
|                                                                                                                                                                                                                        |                         |               | UE Identity        | TMSI (GSM-MAP) As specified during Registration procedure |  |  |  |  |
| Other information ele                                                                                                                                                                                                  | ments                   |               |                    |                                                           |  |  |  |  |
| BCCH modification info                                                                                                                                                                                                 | omit                    |               |                    |                                                           |  |  |  |  |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the Paging cause, CN domain identity and UE Identity are selected in accordance with the requirements of the following procedure. |                         |               |                    |                                                           |  |  |  |  |

# 7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

| Information Element                                                                                                                                                              |                |                   | Value/Remark                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|------------------------------------------------------------------------------|
| Message Type                                                                                                                                                                     |                |                   | RRC CONNECTION<br>REQUEST                                                    |
| UE information elemen                                                                                                                                                            | ts             |                   |                                                                              |
| Initial UE identity                                                                                                                                                              | TMSI and LAI   | TMSI (GSM-MAP)    | As specified during<br>Registration procedure                                |
|                                                                                                                                                                                  |                | LAI (GSM-MAP)     | As specified by default 1 cell environment                                   |
| Initial UE capability                                                                                                                                                            | Maximum number | er of AM entities | As declared in UE ICS                                                        |
| Establishment cause                                                                                                                                                              |                |                   | As appropriate                                                               |
| Protocol error indicator                                                                                                                                                         |                |                   | FALSE                                                                        |
| >UE Specific Behaviour Information 1 idle                                                                                                                                        |                |                   | This IE will not be checked by default behaviour, but in specific test case. |
|                                                                                                                                                                                  |                |                   | · ·                                                                          |
| Measurement informati                                                                                                                                                            | on elements    |                   |                                                                              |
| Measured results on RACH                                                                                                                                                         |                |                   | Not checked                                                                  |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure. |                |                   |                                                                              |

# 7.1.2.4.3 RRC CONNECTION SETUP

This message is sent from the SS to the UE using the UM-RLC SAP. The message is sent on the CCCH Logical channel.

The default RRC CONNECTION SETUP message for the transition to connected mode CELL\_DCH is used except for the IE fields specified below.

| Information Element                                                                                                 |                      | Value/Remark   |                                            |  |  |  |
|---------------------------------------------------------------------------------------------------------------------|----------------------|----------------|--------------------------------------------|--|--|--|
| Message Type                                                                                                        | RRC CONNECTION SETUP |                |                                            |  |  |  |
| <b>UE Information Elements</b>                                                                                      |                      |                |                                            |  |  |  |
| Initial UE identity                                                                                                 | TMSI and LAI         | TMSI (GSM-MAP) | As specified during Registration procedure |  |  |  |
|                                                                                                                     |                      | LAI (GSM-MAP)  | As specified by default 1 cell environment |  |  |  |
|                                                                                                                     |                      |                |                                            |  |  |  |
| RB Information Elements                                                                                             |                      |                |                                            |  |  |  |
| Use default                                                                                                         |                      |                |                                            |  |  |  |
| TrCH Information Elements                                                                                           | 3                    |                |                                            |  |  |  |
| Use default                                                                                                         | Use default          |                |                                            |  |  |  |
| <b>PhyCH Information Elemen</b>                                                                                     | ts                   |                |                                            |  |  |  |
| Frequency info                                                                                                      |                      |                | As specified by default 1 cell environment |  |  |  |
| Uplink radio resources                                                                                              |                      |                |                                            |  |  |  |
| Use default                                                                                                         |                      |                |                                            |  |  |  |
| Downlink radio resources                                                                                            |                      |                |                                            |  |  |  |
| Use default                                                                                                         |                      |                |                                            |  |  |  |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in |                      |                |                                            |  |  |  |
| accordance with the requirements of the following procedure.                                                        |                      |                |                                            |  |  |  |

# 7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent by the UE to the SS using AM-RLC SAP. The message is sent on the DCCH Logical channel.

| Information Element        |                              |                                                    | Value/Remark         |
|----------------------------|------------------------------|----------------------------------------------------|----------------------|
| Message Type               |                              |                                                    | RRC CONNECTION SETUP |
|                            |                              |                                                    | COMPLETE             |
| UE Information Elements    |                              |                                                    |                      |
| Hyper frame number         |                              |                                                    | Not checked          |
| UE radio access capability | Conformance test             | compliance                                         | R99                  |
| 1 ,                        | PDCP capability              | Support for lossless SRNS                          | Not checked          |
|                            |                              | relocation                                         |                      |
|                            |                              | Supported algorithm types                          | Not checked          |
|                            | RLC capability               | Total RLC AM buffer size                           | Not checked          |
|                            |                              | Maximum number of AM entities                      | Not checked          |
|                            | Transport channel capability | Downlink                                           |                      |
|                            | , ,                          | Max no of bits received                            | Not checked          |
|                            |                              | Max convolutionally coded bits received            | Not checked          |
|                            |                              | Max turbo coded bits received                      | Not checked          |
|                            |                              | Maximum number of simultaneous transport channels  | Not checked          |
|                            |                              | Max no of received transport blocks                | Not checked          |
|                            |                              | Maximum number of TFC in the TFCS                  | Not checked          |
|                            |                              | Maximum number of TF                               | Not checked          |
|                            |                              | Support for turbo decoding                         | Not checked          |
|                            |                              | Uplink                                             |                      |
|                            |                              | Max no of bits transmitted                         | Not checked          |
|                            |                              | Max convolutionally coded bits received            | Not checked          |
|                            |                              | Max turbo coded bits received                      | Not checked          |
|                            |                              | Maximum number of simultaneous transport channels  | Not checked          |
|                            |                              | Max no of transmitted transport blocks             | Not checked          |
|                            |                              | Maximum number of TFC in the TFCS                  | Not checked          |
|                            |                              | Maximum number of TF                               | Not checked          |
|                            |                              | Support for turbo encoding                         | Not checked          |
|                            | RF capability                | UE power class                                     | As declared for UE   |
|                            |                              | Tx/Rx frequency separation                         | Not checked          |
|                            | Physical channel capability  | Downlink                                           |                      |
|                            |                              | Maximum number of simultaneous CCTrCH              | Not checked          |
|                            |                              | Max no DPCH/PDSCH codes                            | Not checked          |
|                            |                              | Max no physical channel bits received              | Not checked          |
|                            |                              | Support for SF 512                                 | Not checked          |
|                            |                              | Support of PDSCH                                   | Not checked          |
|                            |                              | Simultaneous reception of SCCPCH and DPCH          | Not checked          |
|                            |                              | Max no of S-CCPCH RL                               | Not checked          |
|                            |                              | Uplink                                             |                      |
|                            |                              | Maximum number of DPDCH bits transmitted per 10 ms | Not checked          |
|                            |                              | Support of PCPCH                                   | Not checked          |
|                            |                              | ·                                                  |                      |

| Information Element          |                                           |                                           | Value/Remark   |
|------------------------------|-------------------------------------------|-------------------------------------------|----------------|
|                              | UE multi-<br>mode/multi-RAT<br>capability | Multi-RAT capability                      |                |
|                              |                                           | Multi-mode capability                     | FDD or FDD/TDD |
|                              | Security capability                       | Ciphering algorithm capability            | Not checked    |
|                              |                                           | Integrity protection algorithm capability | Not checked    |
|                              | LCS capability                            | Standalone location method(s) supported   | Not checked    |
|                              |                                           | UE based OTDOA supported                  | Not checked    |
|                              |                                           | Network Assisted GPS support              | Not checked    |
|                              |                                           | GPS reference time capable                | Not checked    |
|                              |                                           | Support for IPDL                          | Not checked    |
|                              | Measurement capability                    | Need for downlink compressed mode         | Not checked    |
|                              |                                           | FDD measurements DL                       | Not checked    |
|                              |                                           | TDD measurements DL                       | Not checke     |
|                              |                                           | GSM 900 DL                                | Not checked    |
|                              |                                           | DCS 1800 DL                               | Not checked    |
|                              |                                           | GSM 1900 DL                               | Not checked    |
|                              |                                           | Multi-carrier measurement DL              | Not checked    |
|                              |                                           | Need for uplink compressed mode           | Not checked    |
|                              |                                           | FDD measurements UL                       | Not checked    |
|                              |                                           | TDD measurements UL                       | Not checked    |
|                              |                                           | GSM 900 UL                                | Not checked    |
|                              |                                           | DCS 1800 UL                               | Not checked    |
|                              |                                           | GSM 1900 UL                               | Not checked    |
|                              |                                           | Multi-carrier measurement UL              | Not checked    |
| UE system specific capabilit | у                                         |                                           | Not checked    |

# 7.1.3 Radio Bearer Setup Procedure

# 7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

# 7.1.3.2 Definition of system information messages

The default system information messages are used.

# 7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On receiption of the RADIO BEARER SETUP COMPLETE the procedure is complete.

| Step | Direction     | Message                            | Comments |
|------|---------------|------------------------------------|----------|
|      | UE SS         |                                    |          |
| 1    | <b>←</b>      | RADIO BEARER SETUP (DCCH)          | RRC      |
| 2    | $\rightarrow$ | RADIO BEARER SETUP COMPLETE (DCCH) | RRC      |

# 7.1.3.4 Specific message contents

# 7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

| Information Element       |                                                                                                                                                                                                                             | Value/Remark       |  |  |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--|--|
| Message Type              |                                                                                                                                                                                                                             | RADIO BEARER SETUP |  |  |
| UE Information Elements   |                                                                                                                                                                                                                             |                    |  |  |
| CN Information Elements   | CN Information Elements                                                                                                                                                                                                     |                    |  |  |
| RB Information Elements   |                                                                                                                                                                                                                             |                    |  |  |
| RAB information for setup | tion for setup  Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4 for FDD, clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.11.5.4.1.4 for 1.28 Mcps TDD |                    |  |  |

#### 7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used .

| Information Element | Value/Remark                   |
|---------------------|--------------------------------|
| Message Type        | RADIO BEARER SETUP<br>COMPLETE |
| Use default         |                                |

# 7.2 Generic setup procedures

# 7.2.1 UE Test States for Generic setup procedures

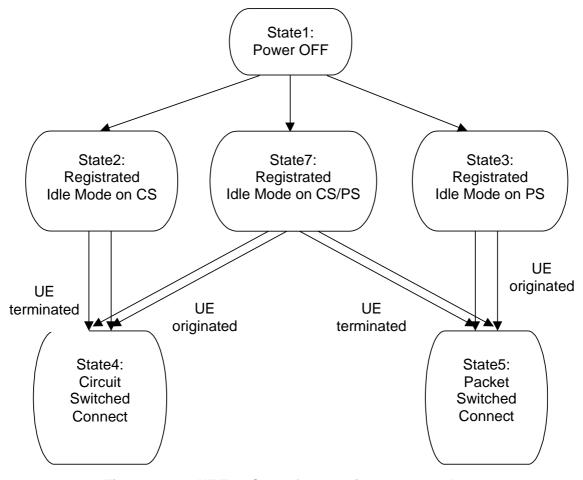


Figure 7.2.1.1: UE Test States for Generic setup procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.2.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.2.1.1.

Table 7.2.1.1: The UE states

|        |                               | RRC       | CC     | MM                     | SM       | GMM                    |
|--------|-------------------------------|-----------|--------|------------------------|----------|------------------------|
| State1 | Power OFF                     |           | null   | detached               | inactive | detached               |
| State2 | Registered Idle Mode on CS    | idle      | null   | idle                   | inactive | detached               |
| State3 | Registered Idle Mode on PS    | idle      | null   | detached               | inactive | idle                   |
| State4 | Circuit Switched Connect      | connected | active | connected              | inactive | same as previous state |
| State5 | Packet Switched Connect       | connected | null   | same as previous state | active   | connected              |
| State7 | Registered Idle Mode on CS/PS | idle      | null   | idle                   | inactive | idle                   |

# 7.2.2 Registration of UE

The default procedures required to achieve the changes of state between State 1, in clause 7.2.1, and States 2, 3 and 7 are illustrated in the following sections.

The choice of which procedure to use given a UE supporting packet services is influenced by the Network Mode of Operation being simulated by the SS and by the Operation Mode of the UE, as described in TS 24.008 [32] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

Table 7.2.2: Registration Procedures for UEs Supporting Packet Services

| Network Mode |       | NMO I   | NMO II  |
|--------------|-------|---------|---------|
|              |       |         |         |
| UE<br>Mode   | PS/CS | 7.2.2.3 | 7.2.2.4 |
| Wiode        | PS    | 7.2.2.2 | 7.2.2.2 |

# 7.2.2.1 Registration on CS

#### 7.2.2.1.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.2.1.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.1.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction                         | Message                              | Comments     |
|------|-----------------------------------|--------------------------------------|--------------|
|      | UE SS                             |                                      |              |
| 1    | <                                 | SYSTEM INFORMATION (BCCH)            | NW Broadcast |
| 2    | >                                 | RRC CONNECTION REQUEST (CCCH)        | RRC          |
| 3    | <                                 | RRC CONNECTION SETUP (CCCH)          | RRC          |
| 4    | >                                 | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC          |
| 5    | >                                 | LOCATION UPDATING REQUEST            | MM           |
| 6    | <                                 | AUTHENTICATION REQUEST               | MM           |
| 7    | > AUTHENTICATION RESPONSE         |                                      | MM           |
| 8    | < SECURITY MODE COMMAND           |                                      | RRC          |
| 9    | > SECURITY MODE COMPLETE          |                                      | RRC          |
| 10   | < LOCATION UPDATING ACCEPT        |                                      | MM           |
| 11   | > TMSI REALLOCATION COMPLETE      |                                      | MM           |
| 12   | < RRC CONNECTION RELEASE          |                                      | RRC          |
| 13   | > RRC CONNECTION RELEASE COMPLETE |                                      | RRC          |

# 7.2.2.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.2.2 Registration on PS

# 7.2.2.2.1 Initial condition

**System Simulator:** 

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.2.2.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.2.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction                               | Message                              | Comments     |
|------|-----------------------------------------|--------------------------------------|--------------|
|      | UE SS                                   |                                      |              |
| 1    | <                                       | SYSTEM INFORMATION (BCCH)            | NW Broadcast |
| 2    | >                                       | RRC CONNECTION REQUEST (CCCH)        | RRC          |
| 3    | <                                       | RRC CONNECTION SETUP (CCCH)          | RRC          |
| 4    | >                                       | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC          |
| 5    | >                                       | ATTACH REQUEST                       | GMM          |
| 6    | <                                       | AUTHENTICATION AND CIPHERING REQUEST | GMM          |
| 7    | > AUTHENTICATION AND CIPHERING RESPONSE |                                      | GMM          |
| 8    | < SECURITY MODE COMMAND                 |                                      | RRC          |
| 9    | >                                       | SECURITY MODE COMPLETE               | RRC          |
| 10   | < ATTACH ACCEPT                         |                                      | GMM          |
| 11   | > ATTACH COMPLETE                       |                                      | GMM          |
| 12   | < RRC CONNECTION RELEASE                |                                      | RRC          |
| 13   | >                                       | RRC CONNECTION RELEASE COMPLETE      | RRC          |

# 7.2.2.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.2.3 Registration on CS / PS combined environment

#### 7.2.2.3.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode I, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.2.3.2 Definition of system information messages

# 7.2.2.3.3 Procedure UE establish PS registration immediately after the UE has been switched on

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction                               | Message                              | Comments     |
|------|-----------------------------------------|--------------------------------------|--------------|
|      | UE SS                                   |                                      |              |
| 1    | <                                       | SYSTEM INFORMATION (BCCH)            | NW Broadcast |
| 2    | >                                       | RRC CONNECTION REQUEST (CCCH)        | RRC          |
| 3    | <                                       | RRC CONNECTION SETUP (CCCH)          | RRC          |
| 4    | >                                       | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC          |
| 5    | >                                       | ATTACH REQUEST                       | GMM          |
| 6    | < AUTHENTICATION AND CIPHERING REQUEST  |                                      | GMM          |
| 7    | > AUTHENTICATION AND CIPHERING RESPONSE |                                      | GMM          |
| 8    | < SECURITY MODE COMMAND                 |                                      | RRC          |
| 9    | >                                       | SECURITY MODE COMPLETE               | RRC          |
| 10   | < ATTACH ACCEPT                         |                                      | GMM          |
| 11   | > ATTACH COMPLETE                       |                                      | GMM          |
| 12   | < RRC CONNECTION RELEASE                |                                      | RRC          |
| 13   | >                                       | RRC CONNECTION RELEASE COMPLETE      | RRC          |

# 7.2.2.3.3a Procedure UE establish PS registration later the user decides to use the PS services

CS registration has been successfully completed and RRC connection is released, cee clause 7.2.2.1. Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction |    | Message                               | Comments                      |
|------|-----------|----|---------------------------------------|-------------------------------|
| -    | UE        | SS |                                       |                               |
| 1    | <         | -  | SYSTEM INFORMATION (BCCH)             | NW Broadcast                  |
| 1a   |           |    |                                       | The UE initiates an attach by |
|      |           |    |                                       | MMI or by AT command.         |
| 2    | >         | >  | RRC CONNECTION REQUEST (CCCH)         | RRC                           |
| 3    | <         | -  | RRC CONNECTION SETUP (CCCH)           | RRC                           |
| 4    | >         | >  | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                           |
| 5    | >         | >  | ATTACH REQUEST                        | GMM                           |
| 6    | <         | -  | AUTHENTICATION AND CIPHERING REQUEST  | GMM                           |
| 7    | >         | >  | AUTHENTICATION AND CIPHERING RESPONSE | GMM                           |
| 8    | <         | -  | SECURITY MODE COMMAND                 | RRC                           |
| 9    | >         | >  | SECURITY MODE COMPLETE                | RRC                           |
| 10   | <         |    | ATTACH ACCEPT                         | GMM                           |
| 11   | >         |    | ATTACH COMPLETE                       | GMM                           |
| 12   | <         | -  | RRC CONNECTION RELEASE                | RRC                           |
| 13   | >         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                           |

# 7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.2.4 Registration on CS / PS non-combined environment

#### 7.2.2.4.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode II, default parameters.

User Equipment:

- The UE set to Operation mode A

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.2.4.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.4.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Registrations in the CS domain and in the PS domain shall execute independently. The separate registration procedures may occur sequentially or in parallel. If the procedures occur sequentially PS domain registration can be started immediately after power on or the UE can initiate PS registration by MMI or by AT command. If MMI or AT commands are used, registrations are done with two separate RRC connections. The procedures for CS and PS registration shall be as defined in clauses 7.2.2.1 and 7.2.2.2.

# 7.2.2.4.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer3 Testing".

# 7.2.3 Call setup

# 7.2.3.1 Generic call set up procedure for mobile terminating circuit switched calls

#### 7.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.3.1.2 Definition of system information messages

# 7.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction | Message                              | Comments                      |
|------|-----------|--------------------------------------|-------------------------------|
|      | UE SS     |                                      |                               |
| 1    | <         | SYSTEM INFORMATION (BCCH)            | Broadcast                     |
| 2    | <         | PAGING (PCCH)                        | Paging                        |
| 3    | >         | RRC CONNECTION REQUEST (CCCH)        | RRC                           |
| 4    | <         | RRC CONNECTION SETUP (CCCH)          | RRC                           |
| 5    | >         | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                           |
| 6    | >         | PAGING RESPONSE                      | RR                            |
| 7    | <         | AUTHENTICATION REQUEST               | MM                            |
| 8    | >         | AUTHENTICATION RESPONSE              | MM                            |
| 9    | <         | SECURITY MODE COMMAND                | RRC                           |
| 10   | >         | SECURITY MODE COMPLETE               | RRC                           |
| 11   | <         | SET UP                               | CC                            |
| 12   | >         | CALL CONFIRMED                       | CC                            |
| 13   | <         | RADIO BEARER SETUP                   | RRC RAB SETUP                 |
| 14   | >         | RADIO BEARER SETUP COMPLETE          | RRC                           |
| 15   | >         | ALERTING                             | CC (this message is optional) |
| 16   | >         | CONNECT                              | CC                            |
| 17   | <         | CONNECT ACKNOWLEDGE                  | CC                            |

# 7.2.3.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.3.2 Generic call set-up procedure for mobile originating circuit switched calls

# 7.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.3.2.2 Definition of system information messages

# 7.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction | Message                              | Comments      |
|------|-----------|--------------------------------------|---------------|
|      | UE SS     |                                      |               |
| 1    | <         | SYSTEM INFORMATION (BCCH)            | Broadcast     |
| 2    | >         | RRC CONNECTION REQUEST (CCCH)        | RRC           |
| 3    | <         | RRC CONNECTION SETUP (CCCH)          | RRC           |
| 4    | >         | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC           |
| 5    | >         | CM SERVICE REQUEST                   | MM            |
| 6    | <         | AUTHENTICATION REQUEST               | MM            |
| 7    | >         | AUTHENTICATION RESPONSE              | MM            |
| 8    | <         | SECURITY MODE COMMAND                | RRC           |
| 9    | >         | SECURITY MODE COMPLETE               | RRC           |
| 10   | >         | SET UP                               | CC            |
| 11   | <         | CALL PROCEEDING                      | CC            |
| 12   | <         | RADIO BEARER SETUP                   | RRC RAB SETUP |
| 13   | >         | RADIO BEARER SETUP COMPLETE          | RRC           |
| 14   | <         | ALERTING                             | CC            |
| 15   | <         | CONNECT                              | CC            |
| 16   | >         | CONNECT ACKOWLEDGE                   | CC            |

# 7.2.3.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.4 Session setup

# 7.2.4.1 Generic session set up procedure for mobile terminating packet switched sessions

#### 7.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.4.1.2 Definition of system information messages

# 7.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction |    | Message                               | Comments      |
|------|-----------|----|---------------------------------------|---------------|
|      | UE        | SS |                                       |               |
| 1    | <         |    | SYSTEM INFORMATION (BCCH)             | Broadcast     |
| 2    | <         |    | PAGING TYPE1 (PCCH)                   | Paging        |
| 3    |           | >  | RRC CONNECTION REQUEST (CCCH)         | RRC           |
| 4    | <         |    | RRC CONNECTION SETUP (CCCH)           | RRC           |
| 5    |           | >  | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC           |
| 6    |           | >  | SERVICE REQUEST                       | GMM           |
| 7    | <         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM           |
| 8    |           | >  | AUTHENTICATION AND CIPHERING RESPONSE | GMM           |
| 9    | <         |    | SECURITY MODE COMMAND                 | RRC           |
| 10   |           | >  | SECURITY MODE COMPLETE                | RRC           |
| 11   | <         |    | REQUEST PDP CONTEXT ACTIVATION        | SM            |
| 12   | >         |    | ACTIVATE PDP CONTEXT REQUEST          | SM            |
| 13   | <         |    | RADIO BEARER SETUP                    | RRC RAB SETUP |
| 14   | >         |    | RADIO BEARER SETUP COMPLETE           | RRC           |
| 15   | <         |    | ACTIVATE PDP CONTEXT ACCEPT           | SM            |

# 7.2.4.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.4.2 Generic session set up procedure for mobile originating packet switched sessions

#### 7.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

# 7.2.4.2.2 Definition of system information messages

#### 7.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

| Step | Direction | Message                               | Comments      |
|------|-----------|---------------------------------------|---------------|
|      | UE SS     |                                       |               |
| 1    | <         | SYSTEM INFORMATION (BCCH)             | Broadcast     |
| 2    | >         | RRC CONNECTION REQUEST (CCCH)         | RRC           |
| 3    | <         | RRC CONNECTION SETUP (CCCH)           | RRC           |
| 4    | >         | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC           |
| 5    | >         | SERVICE REQUEST                       | GMM           |
| 6    | <         | AUTHENTICATION AND CIPHERING REQUEST  | GMM           |
| 7    | >         | AUTHENTICATION AND CIPHERING RESPONSE | GMM           |
| 8    | <         | SECURITY MODE COMMAND                 | RRC           |
| 9    | >         | SECURITY MODE COMPLETE                | RRC           |
| 10   | >         | ACTIVATE PDP CONTEXT REQUEST          | SM            |
| 11   | <         | RADIO BEARER SETUP                    | RRC RAB SETUP |
| 12   | >         | RADIO BEARER SETUP COMPLETE           | RRC           |
| 13   | <         | ACTIVATE PDP CONTEXT ACCEPT           | SM            |

# 7.2.4.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.3 Test procedures for RF test

# 7.3.1 UE Test States for RF testing

In this clause, the states of the UE for the test are defined.

|        |                         | RRC       | CC   | MM       | SM       | GMM      |
|--------|-------------------------|-----------|------|----------|----------|----------|
| State1 | Power OFF               |           | null | detached | inactive | detached |
| State2 | CS Registered Idle Mode | idle      | null | idle     | inactive | detached |
| State3 | PS Registered Idle Mode | idle      | null | detached | inactive | idle     |
| State4 | Test Mode               | connected | null | detached | inactive | detached |

# 7.3.2 Test procedure for TX, RX and Performance Requirement (without handover)

# 7.3.2.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

# 7.3.2.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

# 7.3.2.3 Procedure

# For UE supporting CS

| Step | Direction | Message                              | Comments                         |
|------|-----------|--------------------------------------|----------------------------------|
|      | UE SS     |                                      |                                  |
| 1    | <         | SYSTEM INFORMATION (BCCH)            | Broadcast                        |
| 2    | <         | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI)         |
| 3    | >         | RRC CONNECTION REQUEST (CCCH)        | RRC                              |
| 4    | <         | RRC CONNECTION SETUP (CCCH)          | RRC                              |
| 5    | >         | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                              |
| 6    | >         | PAGING RESPONSE                      | RR                               |
| 7    | <         | AUTHENTICATION REQUEST               | MM                               |
| 8    | >         | AUTHENTICATION RESPONSE              | MM                               |
| 9    | <         | SECURITY MODE COMMAND                | RRC                              |
| 10   | >         | SECURITY MODE COMPLETE               | RRC                              |
| 11   | <         | ACTIVATE RB TEST MODE                | TC                               |
| 12   | >         | ACTIVATE RB TEST MODE COMPLETE       | TC                               |
| 13   | <         | RADIO BEARER SETUP                   | RRC (RAB SETUP)                  |
| 14   | >         | RADIO BEARER SETUP COMPLETE          | RRC                              |
| 15   | <         | CLOSE UE TEST LOOP (DCCH)            | TC (UE test loop mode set up)    |
| 16   | >         | CLOSE UE TEST LOOP COMPLETE          | TC (confirms that loopback       |
|      |           |                                      | entities for the radio bearer(s) |
|      |           |                                      | have been created and loop       |
|      |           |                                      | back is activated)               |
| 17   | <         | OPEN UE TEST LOOP                    | TC                               |
| 18   | >         | OPEN UE TEST LOOP COMPLETE           | TC                               |
| 19   | <         | RRC CONNECTION RELEASE               | RRC                              |
| 20   | >         | RRC CONNECTION RELEASE COMPLETE      | RRC                              |

# For UE supporting PS only

| Step | Direction |    | Message                               | Comments                         |
|------|-----------|----|---------------------------------------|----------------------------------|
|      | UE        | SS |                                       |                                  |
| 1    |           | <  | SYSTEM INFORMATION (BCCH)             | Broadcast                        |
| 2    | <         | <  | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)       |
| 3    | -         | -> | RRC CONNECTION REQUEST (CCCH)         | RRC                              |
| 4    | <         | <  | RRC CONNECTION SETUP (CCCH)           | RRC                              |
| 5    | -         | -> | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                              |
| 6    | -         | -> | SERVICE REQUEST                       | GMM                              |
| 7    | <         | <  | AUTHENTICATION AND CIPHERING REQUEST  | GMM                              |
| 8    | -         | -> | AUTHENTICATION AND CIPHERING RESPONSE | GMM                              |
| 9    | <         | <  | SECURITY MODE COMMAND                 | RRC                              |
| 10   | -         | -> | SECURITY MODE COMPLETE                | RRC                              |
| 11   | <         | <  | ACTIVATE RB TEST MODE                 | TC                               |
| 12   | -         | -> | ACTIVATE RB TEST MODE COMPLETE        | TC                               |
| 13   | <         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP)                  |
| 14   | -         | -> | RADIO BEARER SETUP COMPLETE           | RRC                              |
| 15   | <         | <  | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up)    |
| 16   | -         | -> | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback       |
|      |           |    |                                       | entities for the radio bearer(s) |
|      |           |    |                                       | have been created and loop       |
|      |           |    |                                       | back is activated)               |
| 17   | <         | <  | OPEN UE TEST LOOP                     | TC                               |
| 18   | -         | -> | OPEN UE TEST LOOP COMPLETE            | TC                               |
| 19   | <         | <  | RRC CONNECTION RELEASE                | RRC                              |
| 20   | -         | -> | RRC CONNECTION RELEASE COMPLETE       | RRC                              |

# 7.3.2.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

# 7.3.2.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.2.4.2 Reference measurement channels

The configurations of the reference measurement channels for RF tests are described in TS 34.121 [2] Annex C for FDD and TS 34.122 [5] Annex C for TDD.

# 7.3.2.4.3 UE test loop mode

The messages in this sub-clause are sent from the SS to the UE, determining the UE test loop mode for the RF tests.

UE test loop mode 1 without DCCH dummy transmission

Default. See clause 9.2.

UE test loop mode 1 with DCCH dummy transmission

Contents of CLOSE UE TEST LOOP: TC

| Information Element | Value/remark                                                            |
|---------------------|-------------------------------------------------------------------------|
| UE test loop mode   | UE test loop mode 1 DCCH dummy transmission set to "enabled". 00000100B |

UE test loop mode 2 without DCCH dummy transmission

Contents of CLOSE UE TEST LOOP: TC

| Information Element | Value/remark                                                             |
|---------------------|--------------------------------------------------------------------------|
| UE test loop mode   | UE test loop mode 2 DCCH dummy transmission set to "disabled". 00000001B |

# 7.3.2.4.4 Compressed mode

[T.B.D.]

# 7.3.2.4.5 Transmit diversity mode

[T.B.D.]

# 7.3.3 Test procedure for Rx Spurious Emission

# 7.3.3.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall be operated under RF test conditions.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

# 7.3.3.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

# 7.3.3.3 Procedure

# For UE supporting CS

| Step | p Direction |          | Message                              | Comments                        |
|------|-------------|----------|--------------------------------------|---------------------------------|
|      | UE          | SS       |                                      |                                 |
| 1    | <           | <b>:</b> | SYSTEM INFORMATION (BCCH)            | Broadcast                       |
| 2    | <           | <b>:</b> | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI)        |
| 3    | -           | ->       | RRC CONNECTION REQUEST (CCCH)        | RRC                             |
| 4    | <           | <b>:</b> | RRC CONNECTION SETUP (CCCH)          | RRC                             |
| 5    | -           | ->       | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                             |
| 6    | -           | ->       | PAGING RESPONSE                      | RR                              |
| 7    | <           | <        | AUTHENTICATION REQUEST               | MM                              |
| 8    | -           | ->       | AUTHENTICATION RESPONSE              | MM                              |
| 9    | <           |          | SECURITY MODE COMMAND                | RRC                             |
| 10   | >           |          | SECURITY MODE COMPLETE               | RRC                             |
| 11   | <           |          | ACTIVATE RB TEST MODE                | TC                              |
| 12   | >           |          | ACTIVATE RB TEST MODE COMPLETE       | TC                              |
| 13   | <           | <        | RADIO BEARER SETUP                   | RRC                             |
|      |             |          |                                      | - RAB SETUP using Reference     |
|      |             |          |                                      | Radio Bearer Configuration      |
|      |             |          |                                      | - RRC state indicator is set to |
|      |             |          |                                      | "CELL_FACH"                     |
| 14   | -           | ->       | RADIO BEARER SETUP COMPLETE          | RRC                             |
| 15   | 5 <         |          | RRC CONNECTION RELEASE               | RRC                             |
| 16   | -           | ->       | RRC CONNECTION RELEASE COMPLETE      | RRC                             |

# For UE supporting PS only

| Step | p Direction |    | Message                               | Comments                        |
|------|-------------|----|---------------------------------------|---------------------------------|
|      | UE          | SS |                                       |                                 |
| 1    | <           |    | SYSTEM INFORMATION (BCCH)             | Broadcast                       |
| 2    | <           |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)      |
| 3    |             | >  | RRC CONNECTION REQUEST (CCCH)         | RRC                             |
| 4    | <           |    | RRC CONNECTION SETUP (CCCH)           | RRC                             |
| 5    |             | >  | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                             |
| 6    |             | >  | SERVICE REQUEST                       | GMM                             |
| 7    | <           |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                             |
| 8    |             | >  | AUTHENTICATION AND CIPHERING RESPONSE | GMM                             |
| 9    | <           |    | SECURITY MODE COMMAND                 | RRC                             |
| 10   | >           |    | SECURITY MODE COMPLETE                | RRC                             |
| 11   | <           |    | ACTIVATE RB TEST MODE                 | TC                              |
| 12   | >           |    | ACTIVATE RB TEST MODE COMPLETE        | TC                              |
| 13   | <           |    | RADIO BEARER SETUP                    | RRC                             |
|      |             |    |                                       | - RAB SETUP using Reference     |
|      |             |    |                                       | Radio Bearer Configuration      |
|      |             |    |                                       | - RRC state indicator is set to |
|      |             |    |                                       | "CELL_FACH"                     |
| 14   |             | >  | RADIO BEARER SETUP COMPLETE           | RRC                             |
| 15   | <           |    | RRC CONNECTION RELEASE                | RRC                             |
| 16   | ·>          |    | RRC CONNECTION RELEASE COMPLETE       | RRC                             |

# 7.3.3.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

# Contents of RADIO BEARER SETUP message: RRC

| Information Element | Value/remark          |
|---------------------|-----------------------|
| New C-RNTI          | '1010 1010 1010 1010' |
| RRC State indicator | CELL_FACH             |

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |  |
|--------------------------|---------------------------|--|
| Periodic RA update timer | E0 (timer is deactivated) |  |

# 7.3.4 Test procedure for Handover

#### 7.3.4.1 Initial conditions

System Simulator

- Intra-frequency hard handover and soft handover case:
  - 2 cells, default parameters according to Cell 1 and Cell 2 in clause 6.1.4.
- Inter-frequency hard handover case:
  - 2 cells, default parameters according to Cell 1 and Cell 4 in clause 6.1.4.
- Inter-system handover UTRAN FDD to GSM case:
  - 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.

#### User Equipment

The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

# 7.3.4.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

For the intra-frequency hard handover and soft handover case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 2 in clause 6.1.4 are used.

For the inter-frequency hard handover case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 4 in clause 6.1.4 are used.

For the inter-system handover from UTRAN FDD to GSM case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 9 in clause 6.1.4 are used.

# 7.3.4.3 Procedure

# For UE supporting CS

| Step | Direction |    | Message                              | Comments                        |
|------|-----------|----|--------------------------------------|---------------------------------|
|      | UE        | SS |                                      |                                 |
| 1    | <         |    | SYSTEM INFORMATION (BCCH)            | Broadcast                       |
| 2    | <         | ;  | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI)        |
| 3    |           | -> | RRC CONNECTION REQUEST (CCCH)        | RRC                             |
| 4    | <         | :  | RRC CONNECTION SETUP (CCCH)          | RRC                             |
| 5    |           | -> | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                             |
| 6    |           | -> | PAGING RESPONSE                      | RR                              |
| 7    | <         | :  | AUTHENTICATION REQUEST               | MM                              |
| 8    |           | -> | AUTHENTICATION RESPONSE              | MM                              |
| 9    | <         | :  | SECURITY MODE COMMAND                | RRC                             |
| 10   |           | -> | SECURITY MODE COMPLETE               | RRC                             |
| 11   | <         | :  | ACTIVATE RB TEST MODE                | TC                              |
| 12   | >         |    | ACTIVATE RB TEST MODE COMPLETE       | TC                              |
| 13   | <         | :  | RADIO BEARER SETUP                   | RRC                             |
|      |           |    |                                      | - RAB SETUP using Reference     |
|      |           |    |                                      | Radio Bearer Configuration      |
|      |           |    |                                      | - RRC state indicator is set to |
|      |           |    |                                      | "CELL_DCH"                      |
| 14   |           | -> | RADIO BEARER SETUP COMPLETE          | RRC                             |
| 15   | 5 <       |    | RRC CONNECTION RELEASE               | RRC                             |
| 16   |           |    | RRC CONNECTION RELEASE COMPLETE      | RRC                             |

# For UE supporting PS only

| Step | p Direction |    | Message                               | Comments                        |
|------|-------------|----|---------------------------------------|---------------------------------|
|      | UE          | SS |                                       |                                 |
| 1    | <           | :  | SYSTEM INFORMATION (BCCH)             | Broadcast                       |
| 2    | <           | :  | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)      |
| 3    |             | -> | RRC CONNECTION REQUEST (CCCH)         | RRC                             |
| 4    | <           | :  | RRC CONNECTION SETUP (CCCH)           | RRC                             |
| 5    |             | -> | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                             |
| 6    |             | -> | SERVICE REQUEST                       | GMM                             |
| 7    | <           | :  | AUTHENTICATION AND CIPHERING REQUEST  | GMM                             |
| 8    |             | -> | AUTHENTICATION AND CIPHERING RESPONSE | GMM                             |
| 9    | <           |    | SECURITY MODE COMMAND                 | RRC                             |
| 10   | )>          |    | SECURITY MODE COMPLETE                | RRC                             |
| 11   | <           | :  | ACTIVATE RB TEST MODE                 | TC                              |
| 12   | >           |    | ACTIVATE RB TEST MODE COMPLETE        | TC                              |
| 13   | <           | :  | RADIO BEARER SETUP                    | RRC                             |
|      |             |    |                                       | - RAB SETUP using Reference     |
|      |             |    |                                       | Radio Bearer Configuration      |
|      |             |    |                                       | - RRC state indicator is set to |
|      |             |    |                                       | "CELL_DCH"                      |
| 14   |             | -> | RADIO BEARER SETUP COMPLETE           | RRC                             |
| 15   | <           | ;  | RRC CONNECTION RELEASE                | RRC                             |
| 16   |             | -> | RRC CONNECTION RELEASE COMPLETE       | RRC                             |

# 7.3.4.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

# Contents of RADIO BEARER SETUP message: RRC

| Information Element | Value/remark          |
|---------------------|-----------------------|
| New C-RNTI          | '1010 1010 1010 1010' |
| RRC State indicator | CELL_DCH              |

# Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

# 7.3.5 Void

# 7.3.6 Test procedure for HSDPA RF Performance Requirement

# 7.3.6.1 Initial conditions

System Simulator

- 1 HS-DSCH cell, default parameters.

User Equipment

The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

# 7.3.6.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

# Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

# 7.3.6.3 Procedure

| Step | Direction |    | Message                               | Comments                   |
|------|-----------|----|---------------------------------------|----------------------------|
|      | UE        | SS |                                       |                            |
| 1    | <         | <  | SYSTEM INFORMATION (BCCH)             | Broadcast                  |
| 2    | <         | <  | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI) |
| 3    | -         | -> | RRC CONNECTION REQUEST (CCCH)         | RRC                        |
| 4    |           | <  | RRC CONNECTION SETUP (CCCH)           | RRC                        |
| 5    | -         | -> | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                        |
| 6    | -         | -> | SERVICE REQUEST                       | GMM                        |
| 7    | <         | <  | AUTHENTICATION AND CIPHERING REQUEST  | GMM                        |
| 8    | 8>        |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                        |
| 9    |           | <  | SECURITY MODE COMMAND                 | RRC                        |
| 10   | 10>       |    | SECURITY MODE COMPLETE                | RRC                        |
| 11   | 11 <      |    | ACTIVATE RB TEST MODE                 | TC                         |
| 12   | 2>        |    | ACTIVATE RB TEST MODE COMPLETE        | TC                         |
| 13   | 3 <       |    | RADIO BEARER SETUP                    | RRC (RAB SETUP)            |
| 14   | 4> R      |    | RADIO BEARER SETUP COMPLETE           | RRC                        |
| 15   | 5 <>      |    |                                       | Perform test               |
| 16   | S <       |    | RRC CONNECTION RELEASE                | RRC                        |
| 17   | 7>        |    | RRC CONNECTION RELEASE COMPLETE       | RRC                        |

# 7.3.6.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

# 7.3.6.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.6.4.2 RADIO BEARER SETUP

For step 13, the messages in clause 9.2 titled "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in TS 34.121[2] Annex C for FDD and TS 34.122 [5] Annex C for TDD.

# 7.4 Common generic procedures for AS testing

# 7.4.1 UE RRC Test States for common procedures

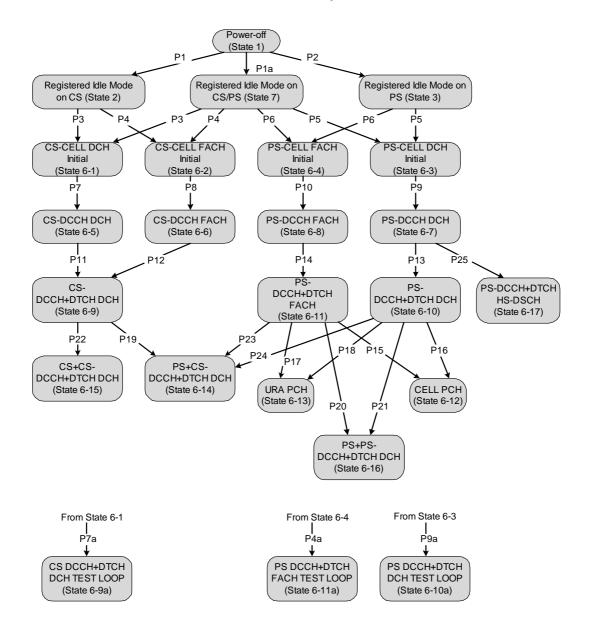


Figure 7.4.1.1: UE RRC test initial states and common procedures

For UE to set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.4.1.1, the operating states for various protocols in the UE are given in table 7.4.1.1.

It is noted that figure 7.4.1.1 should not be construed as a formal state transition diagram, in any manner. The intention here is to define the starting state of UE following the execution of the procedures indicated above.

Table 7.4.1.1: The UE states

|                |                                     | RRC                      | CC        | MM          | SM             | GMM         |
|----------------|-------------------------------------|--------------------------|-----------|-------------|----------------|-------------|
| State 1        | Power OFF                           |                          | Null      | Detached    | Inactive       | Detached    |
| State 2        | Registered Idle Mode on CS          | Idle                     | Null      | ldle        | Inactive       | Detached    |
| State 3        | Registered Idle Mode on PS          | Idle                     | Null      | Detached    | Inactive       | Idle        |
| State 7        | Registered Idle Mode on CS/PS       | Idle                     | Null      | Idle        | Inactive       | Idle        |
| State BGP6-1   | CS-CELL_DCH_Initial                 | Connected                | Null      | As previous | Inactive       | As previous |
| State BGP6-2   | CS-CELL_FACH_Initial                | Connected                | Null      | As previous | Inactive       | As previous |
| State BGP6-3   | PS-CELL_DCH_Initial                 | Connected                | Null      | As previous | Inactive       | As previous |
| State BGP6-4   | PS-CELL_FACH_Initial                | Connected                | Null      | As previous | Inactive       | As previous |
| State BGP6-5   | CS-DCCH_DCH                         | Connected (CELL_DCH)     | Null      | As previous | Inactive       | As previous |
| State BGP6-6   | CS-DCCH_FACH                        | Connected (CELL_FACH)    | Null      | As previous | Inactive       | As previous |
| State BGP6-7   | PS-DCCH_DCH                         | Connected<br>(CELL_DCH)  | Null      | As previous | Active pending | As previous |
| State BGP6-8   | PS-DCCH_FACH                        | Connected<br>(CELL_FACH) | Null      | As previous | Active pending | As previous |
| State BGP6-9   | CS-DCCH+DTCH_DCH                    | Connected<br>(CELL_DCH)  | Connected | As previous | Inactive       | As previous |
| State BGP6-9a  | CS-<br>DCCH+DTCH_DCH_TEST<br>LOOP   | Connected<br>(CELL_DCH)  | Null      | As previous | Inactive       | As previous |
| State BGP6-10  | PS-DCCH+DTCH_DCH                    | Connected<br>(CELL_DCH)  | Null      | As previous | Active         | As previous |
| State BGP6-10a | PS-<br>DCCH+DTCH_DCH_TEST<br>LOOP   | Connected<br>(CELL_DCH)  | Null      | As previous | Inactive       | As previous |
| State BGP6-11  | PS-DCCH+DTCH_FACH                   | Connected<br>(CELL_FACH) | Null      | As previous | Active         | As previous |
| State BGP6-11a | PS-<br>DCCH+DTCH_FACH_TES<br>T_LOOP | Connected<br>(CELL_FACH) | Null      | As previous | Inactive       | As previous |
| State BGP6-12  | CELL_PCH                            | Connected (CELL_PCH)     | Null      | As previous | Inactive       | As previous |
| State BGP6-13  | URA_PCH                             | Connected (URA_PCH)      | Null      | As previous | Inactive       | As previous |
| State BGP6-14  | PS+CS-<br>DCCH+DTCH_DCH             | Connected (CELL_DCH)     | Connected | As previous | Active         | As previous |
| State BGP6-15  | CS+CS-<br>DCCH+DTCH_DCH             | Connected (CELL_DCH)     | Connected | As previous | Inactive       | As previous |
| State BGP6-16  | PS+PS-<br>DCCH+DTCH_DCH             | Connected<br>(CELL_DCH)  | Null      | As previous | Active         | As previous |
| State BGP6-17  | PS-DCCH+DTCH_HS-<br>DSCH            | Connected (CELL_DCH)     | Null      | As previous | Active         | As previous |

State 1, state 2, state 3, P1, P2 and P1a are described in TS34.108 clause 7.2. States 6-X (for X=1 to 17) are described below.

# 7.4.2 Generic Setup Procedure for RRC test cases

# 7.4.2.1 RRC connection establishment procedure for circuit-switched calls (procedure P3 and P4)

# 7.4.2.1.1 Mobile terminating call

#### 7.4.2.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

#### 7.4.2.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.1.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |    | Message                              | Comments |
|------|-----------|----|--------------------------------------|----------|
|      | UE SS     |    |                                      |          |
| 1    | <         |    | PAGING TYPE 1 (PCCH)                 | RRC      |
| 2    | >         |    | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 3    | <         |    | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 4    | >         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 5    | -         | -> | PAGING RESPONSE                      | RR       |

# 7.4.2.1.1.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P4, all specific message contents with the exception of step 3 shall be referred to clause 9 of TS 34.108. For step 3, the message of the same type titled "Transition to CELL\_FACH" in TS 34.108 clause 9 is used.

#### 7.4.2.1.2 Mobile originating calls

# 7.4.2.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

#### 7.4.2.1.2.2 Definition of system information messages

The default system information messages specified in clause 6.1 of TS 34.108 are used.

#### 7.4.2.1.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                              | Comments |
|------|-----------|--------------------------------------|----------|
|      | UE SS     | 7                                    |          |
| 1    | >         | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 2    | <         | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 3    | >         | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 4    | >         | CM SERVICE REQUEST                   | MM       |

# 7.4.2.1.2.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P4, all specific message contents with the exception of step 2 shall be referred to clause 9 of TS 34.108. For step 2, the message of the same type titled "Transition to CELL\_FACH" in TS 34.108 clause 9 is used.

# 7.4.2.2 RRC connection establishment procedure for packet switched sessions (procedure P5 and P6)

## 7.4.2.2.1 Mobile terminating session

#### 7.4.2.2.1.1 Initial conditions

**System Simulator:** 

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

#### 7.4.2.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |    | Message                              | Comments |
|------|-----------|----|--------------------------------------|----------|
|      | UE SS     |    |                                      |          |
| 1    | <         |    | PAGING TYPE1 (PCCH)                  | Paging   |
| 2    | >         |    | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 3    | <         |    | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 4    | >         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 5    |           | -> | SERVICE REQUEST                      | GMM      |

#### 7.4.2.2.1.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P6, all specific message contents with the exception of step 3 shall be referred to clause 9 of TS 34.108. For step 3, the message of the same type titled "Transition to CELL\_FACH" in TS 34.108 clause 9 is used.

#### 7.4.2.2.2 Mobile originating sessions

#### 7.4.2.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

#### 7.4.2.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                              | Comments |
|------|-----------|--------------------------------------|----------|
|      | UE SS     | ]                                    |          |
| 1    | >         | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 2    | <         | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 3    | >         | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 4    | >         | SERVICE REQUEST                      | GMM      |

## 7.4.2.2.2.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P6, all specific message contents with the exception of step 2 shall be referred to clause 9 of TS 34.108. For step 2, the message of the same type titled "Transition to CELL\_FACH" in TS 34.108 clause 9 is used.

# 7.4.2.3 NAS call set up procedure for circuit switched calls (procedure P7 and P8)

# 7.4.2.3.1 Mobile terminating call

#### 7.4.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

# 7.4.2.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                 | Comments |
|------|-----------|-------------------------|----------|
|      | UE SS     |                         |          |
| 1    | <         | AUTHENTICATION REQUEST  | MM       |
| 2    | >         | AUTHENTICATION RESPONSE | MM       |
| 3    | <         | SECURITY MODE COMMAND   | RRC      |
| 4    | >         | SECURITY MODE COMPLETE  | RRC      |
| 5    | <         | SET UP                  | CC       |
| 6    | >         | CALL CONFIRMED          | CC       |

# 7.4.2.3.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS 34.108.

# 7.4.2.3.2 Mobile originating calls

#### 7.4.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1or state 6-2.
- The Test USIM shall be inserted.

# 7.4.2.3.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

# 7.4.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |          | Message                 | Comments |
|------|-----------|----------|-------------------------|----------|
|      | UE        | SS       |                         |          |
| 1    | <         |          | AUTHENTICATION REQUEST  | MM       |
| 2    | >         |          | AUTHENTICATION RESPONSE | MM       |
| 3    | <         |          | SECURITY MODE COMMAND   | RRC      |
| 4    | >         |          | SECURITY MODE COMPLETE  | RRC      |
| 5    | >         |          | SET UP                  | CC       |
| 6    | <         | <b>:</b> | CALL PROCEEDING         | CC       |

#### 7.4.2.3.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS 34.108.

# 7.4.2.4 NAS session activation procedure for packet switched sessions (procedure P9 and P10)

# 7.4.2.4.1 Mobile terminating session

#### 7.4.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

# 7.4.2.4.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                               | Comments |
|------|-----------|---------------------------------------|----------|
|      | UE SS     |                                       |          |
| 1    | <         | AUTHENTICATION AND CIPHERING REQUEST  | GMM      |
| 2    | >         | AUTHENTICATION AND CIPHERING RESPONSE | GMM      |
| 3    | <         | SECURITY MODE COMMAND                 | RRC      |
| 4    | >         | SECURITY MODE COMPLETE                | RRC      |
| 5    | <         | REQUEST PDP CONTEXT ACTIVATION        | SM       |
| 6    | >         | ACTIVATE PDP CONTEXT REQUEST          | ISM I    |

#### 7.4.2.4.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS 34.108.

# 7.4.2.4.2 Mobile originating sessions

#### 7.4.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

#### 7.4.2.4.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |  | Message                               | Comments |
|------|-----------|--|---------------------------------------|----------|
|      | UE SS     |  |                                       |          |
| 1    | <         |  | AUTHENTICATION AND CIPHERING REQUEST  | GMM      |
| 2    | >         |  | AUTHENTICATION AND CIPHERING RESPONSE | GMM      |
| 3    | <         |  | SECURITY MODE COMMAND                 | RRC      |
| 4    | >         |  | SECURITY MODE COMPLETE                | RRC      |
| 5    | >         |  | ACTIVATE PDP CONTEXT REQUEST          | SM       |

#### 7.4.2.4.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS34.108.

# 7.4.2.5 Radio access bearer establishment procedure for circuit switched calls (procedure P11 and P12)

# 7.4.2.5.1 Mobile terminating call

#### 7.4.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

# 7.4.2.5.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.5.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |          | Message                     | Comments                      |
|------|-----------|----------|-----------------------------|-------------------------------|
|      | UE        | SS       |                             |                               |
| 1    | <         |          | RADIO BEARER SETUP          | RRC RAB SETUP                 |
| 2    | >         |          | RADIO BEARER SETUP COMPLETE | RRC                           |
| 3    | >         |          | ALERTING                    | CC (This message is optional) |
| 4    | >         |          | CONNECT                     | CC                            |
| 5    | <         | <b>:</b> | CONNECT ACKNOWLEDGE         | CC                            |

# 7.4.2.5.1.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

# 7.4.2.5.2 Mobile originating calls

#### 7.4.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

#### 7.4.2.5.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.5.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | <         |    | RADIO BEARER SETUP          | RRC RAB SETUP |
| 2    | >         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 3    | <         |    |                             | CC            |
| 4    | <         |    | CONNECT                     | CC            |
| 5    |           | -> | CONNECT ACKOWLEDGE          | CC            |

# 7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

# 7.4.2.5a Test loop activation and radio access bearer establishment procedure for circuit switched calls (procedure P7a)

#### 7.4.2.5a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1.
- The Test USIM shall be inserted.

# 7.4.2.5a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.5a.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                               | Comments                      |
|------|-----------|---------------------------------------|-------------------------------|
|      | UE SS     |                                       |                               |
| 1    | <         | AUTHENTICATION REQUEST                | MM                            |
| 2    | >         | AUTHENTICATION RESPONSE               | MM                            |
| 3    | <         | SECURITY MODE COMMAND                 | RRC                           |
| 4    | >         | SECURITY MODE COMPLETE                | RRC                           |
| 5    | <         | ACTIVATE RB TEST MODE (DCCH)          | TC                            |
| 6    | >         | ACTIVATE RB TEST MODE COMPLETE (DCCH) | TC                            |
| 1    | <         | RADIO BEARER SETUP                    | RRC RAB SETUP                 |
| 2    | >         | RADIO BEARER SETUP COMPLETE           | RRC                           |
| 14   | <         | CLOSE UE TEST LOOP (DCCH)             | TC                            |
|      |           |                                       | UE test mode 1                |
|      |           |                                       | RLC SDU size set as specified |
|      |           |                                       | for the actual test case.     |
| 15   | >         | CLOSE UE TEST LOOP COMPLETE (DCCH)    | TC                            |

#### 7.4.2.5a.4 Specific message contents

To execute procedure P7a, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1.

# 7.4.2.6 Radio access bearer establishment procedure for packet switched sessions (procedure P13, P14 and P25)

# 7.4.2.6.1 Mobile terminating session

#### 7.4.2.6.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

#### 7.4.2.6.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.6.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | ·         | <  | RADIO BEARER SETUP          | RRC RAB SETUP |
| 2    | >         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 3    | <         |    | ACTIVATE PDP CONTEXT ACCEPT | SM            |

# 7.4.2.6.1.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P13, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL\_FACH from CELL\_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL\_DCH / HS-DSCH from CELL\_DCH in PS".

# 7.4.2.6.2 Mobile originating sessions

#### 7.4.2.6.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

#### 7.4.2.6.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.6.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | ·         | <  | RADIO BEARER SETUP          | RRC RAB SETUP |
| 2    | >         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 3    | <         |    | ACTIVATE PDP CONTEXT ACCEPT | SM            |

#### 7.4.2.6.2.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P13, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL\_FACH from CELL\_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL\_DCH / HS-DSCH from CELL\_DCH in PS".

# 7.4.2.6a Test loop activation and radio access bearer establishment procedure for packet switched sessions (procedure P13a)

# 7.4.2.6a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

#### 7.4.2.6a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.6a.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                               | Comments                      |
|------|-----------|---------------------------------------|-------------------------------|
|      | UE SS     |                                       |                               |
| 1    | <         | AUTHENTICATION AND CIPHERING REQUEST  | GMM                           |
| 2    | >         | AUTHENTICATION AND CIPHERING RESPONSE | GMM                           |
| 3    | <         | SECURITY MODE COMMAND                 | RRC                           |
| 4    | >         | SECURITY MODE COMPLETE                | RRC                           |
| 5    | <         | ACTIVATE RB TEST MODE (DCCH)          | TC                            |
| 6    | >         | ACTIVATE RB TEST MODE COMPLETE (DCCH) | TC                            |
| 7    | <         | RADIO BEARER SETUP                    | RRC RAB SETUP                 |
| 8    | >         | RADIO BEARER SETUP COMPLETE           | RRC                           |
| 14   | <         | CLOSE UE TEST LOOP (DCCH)             | TC                            |
|      |           |                                       | UE test mode 1                |
|      |           |                                       | RLC SDU size set as specified |
|      |           |                                       | for the actual test case.     |
| 15   | >         | CLOSE UE TEST LOOP COMPLETE (DCCH)    | TC                            |

#### 7.4.2.6a.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P9a, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure 4a, use the message titled "Packet to CELL\_FACH from CELL\_FACH in PS".

# 7.4.2.7 Procedure for transitions to CELL\_PCH or URA\_PCH state (procedure P15, P16, P17 and P18)

# 7.4.2.7.1 Transition to CELL\_PCH (procedure P15 and P16)

#### 7.4.2.7.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

# 7.4.2.7.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.7.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                                   | Comments |
|------|-----------|-------------------------------------------|----------|
|      | UE SS     |                                           |          |
| 1    | <         | PHYSICAL CHANNEL RECONFIGURATION          | RRC      |
| 2    | >         | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC      |

#### 7.4.2.7.1.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Message Type<br>RRC State Indicator | CELL PCH     |

# 7.4.2.7.2 Transition to URA\_PCH (procedure P17 and P18)

#### 7.4.2.7.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

# 7.4.2.7.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.7.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                                   | Comments |
|------|-----------|-------------------------------------------|----------|
|      | UE SS     |                                           |          |
| 1    | <         | PHYSICAL CHANNEL RECONFIGURATION          | RRC      |
| 2    | >         | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC      |

#### 7.4.2.7.2.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type        |              |
| RRC State Indicator | URA PCH      |

# 7.4.2.8 Radio access bearer establishment procedure with packet switched sessions for transitions to Multi Call state (procedure P19, 20 and 21)

# 7.4.2.8.1 Transition to PS+CS-DCCH+DTCH DCH (procedure P19)

#### 7.4.2.8.1.1 Mobile terminating session

#### 7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

# 7.4.2.8.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.1.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction |          | Message                               | Comments      |
|------|-----------|----------|---------------------------------------|---------------|
|      | UE        | SS       |                                       |               |
| 1    | <         |          | PAGING TYPE2 (DCCH)                   | Paging        |
| 2    | >         |          | SERVICE REQUEST                       | GMM           |
| 3    | <         | <b>:</b> | AUTHENTICATION AND CIPHERING REQUEST  | GMM           |
| 4    | >         |          | AUTHENTICATION AND CIPHERING RESPONSE | GMM           |
| 5    | <         |          | SECURITY MODE COMMAND                 | RRC           |
| 6    | >         |          | SECURITY MODE COMPLETE                | RRC           |
| 7    | <         |          | REQUEST PDP CONTEXT ACTIVATION        | SM            |
| 8    | >         |          | ACTIVATE PDP CONTEXT REQUEST          | SM            |
| 9    | <         |          | RADIO BEARER SETUP                    | RRC RAB SETUP |
| 10   | >         |          | RADIO BEARER SETUP COMPLETE           | RRC           |
| 11   | <         |          | ACTIVATE PDP CONTEXT ACCEPT           | SM            |

# 7.4.2.8.1.1.4 Specific message contents

**FFS** 

# 7.4.2.8.1.2 Mobile originating sessions

#### 7.4.2.8.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

# 7.4.2.8.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

# 7.4.2.8.1.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step                                       | Direction                                    | Message                              | Comments |
|--------------------------------------------|----------------------------------------------|--------------------------------------|----------|
|                                            | UE SS                                        |                                      |          |
| 1                                          | >                                            | SERVICE REQUEST                      | GMM      |
| 2                                          | <                                            | AUTHENTICATION AND CIPHERING REQUEST | GMM      |
| 3                                          | 3> AUTHENTICATION AND CIPHERING RESPONSE GMM |                                      | GMM      |
| 4                                          | <                                            | SECURITY MODE COMMAND                | RRC      |
| 5                                          | 5> SECURITY MODE COMPLETE RRC                |                                      | RRC      |
| 6                                          | 6> ACTIVATE PDP CONTEXT REQUEST SM           |                                      | SM       |
| 7   C   RADIO BEARER SETUP   RRC RAB SETUP |                                              | RRC RAB SETUP                        |          |
| 8                                          | >                                            | RADIO BEARER SETUP COMPLETE          | RRC      |
| 9                                          |                                              |                                      | SM       |

### 7.4.2.8.1.2.4 Specific message contents

**FFS** 

### 7.4.2.8.2 Transition to PS+PS-DCCH+DTCH DCH (procedure P20 and P21)

### 7.4.2.8.2.1 Mobile terminating session

#### 7.4.2.8.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

### 7.4.2.8.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                        | Comments      |
|------|-----------|--------------------------------|---------------|
|      | UE SS     |                                |               |
| 1    | <         | PAGING TYPE2 (DCCH)            | Paging        |
| 2    | >         | SERVICE REQUEST                | GMM           |
| 3    | <         | SERVICE ACCEPT                 | GMM           |
| 4    | <         | REQUEST PDP CONTEXT ACTIVATION | SM            |
| 5    | >         | ACTIVATE PDP CONTEXT REQUEST   | SM            |
| 6    | <         | RADIO BEARER SETUP             | RRC RAB SETUP |
| 7    | >         | RADIO BEARER SETUP COMPLETE    | RRC           |
| 8    | <         | ACTIVATE PDP CONTEXT ACCEPT    | SM            |

### 7.4.2.8.2.1.4 Specific message contents

**FFS** 

#### 7.4.2.8.2.2 Mobile originating sessions

#### 7.4.2.8.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

#### 7.4.2.8.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction                                |  | Message         | Comments |
|------|------------------------------------------|--|-----------------|----------|
|      | UE SS                                    |  |                 |          |
| 1    | > SERVICE REQUEST (                      |  | SERVICE REQUEST | GMM      |
| 2    | 2 < SERVICE ACCEPT GMM                   |  | GMM             |          |
| 3    | > ACTIVATE PDP CONTEXT REQUEST SM        |  | SM              |          |
| 4    | <   RADIO BEARER SETUP     RRC RAB SETUP |  | RRC RAB SETUP   |          |
| 5    | > RADIO BEARER SETUP COMPLETE RRC        |  | RRC             |          |
| 6    | <   ACTIVATE PDP CONTEXT ACCEPT   SM     |  | SM              |          |

#### 7.4.2.8.2.2.4 Specific message contents

**FFS** 

# 7.4.2.9 Radio access bearer establishment procedure with circuit switched calls for transitions to Multi Call state (procedure P22, P23 and P24)

### 7.4.2.9.1 Transition to CS+CS-DCCH+DTCH DCH (procedure P22)

### 7.4.2.9.1.1 Mobile terminating call

### 7.4.2.9.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

#### 7.4.2.9.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.1.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                     | Comments                      |
|------|-----------|-----------------------------|-------------------------------|
|      | UE SS     |                             |                               |
| 1    | <         | PAGING TYPE2 (DCCH)         | Paging                        |
| 2    | >         | PAGING RESPONSE             | RR                            |
| 3    | <         | SET UP                      | CC                            |
| 4    | >         | CALL CONFIRMED              | CC                            |
| 5    | <         | RADIO BEARER SETUP          | RRC RAB SETUP                 |
| 6    | >         | RADIO BEARER SETUP COMPLETE | RRC                           |
| 7    | >         | ALERTING                    | CC (this message is optional) |
| 8    | >         | CONNECT                     | cc` '                         |
| 9    | <         | CONNECT ACKNOWLEDGE         | CC                            |

7.4.2.9.1.1.4 Specific message contents

**FFS** 

7.4.2.9.1.2 Mobile originating calls

7.4.2.9.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

### 7.4.2.9.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

### 7.4.2.9.1.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                     | Comments      |
|------|-----------|-----------------------------|---------------|
|      | UE SS     |                             |               |
| 1    | >         | CM SERVICE REQUEST          | MM            |
| 2    | <         | CM SERVICE ACCEPT           | MM            |
| 3    | >         | SET UP                      | CC            |
| 4    | <         | CALL PROCEEDING             | CC            |
| 5    | <         | RADIO BEARER SETUP          | RRC RAB SETUP |
| 6    | >         | RADIO BEARER SETUP COMPLETE | RRC           |
| 7    | <         | ALERTING                    | CC            |
| 8    | <         | CONNECT                     | CC            |
| 9    | >         | CONNECT ACKNOWLEDGE         | CC            |

7.4.2.9.1.2.4 Specific message contents

**FFS** 

### 7.4.2.9.2 Transition to PS+CS-DCCH+DTCH DCH (procedure P23 and 24)

7.4.2.9.2.1 Mobile terminating call

#### 7.4.2.9.2.1.1 Initial conditions

**System Simulator:** 

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

### 7.4.2.9.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.2.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Dire                          | ction | Message                     | Comments                      |
|------|-------------------------------|-------|-----------------------------|-------------------------------|
| -    | UE                            | SS    |                             |                               |
| 1    | 1 < PAGING TYPE2 (DCCH) Pagin |       | Paging                      |                               |
| 2    | -                             | ->    | PAGING RESPONSE             | RR                            |
| 3    |                               | <     | AUTHENTICATION REQUEST      | MM                            |
| 4    | -                             | ->    | AUTHENTICATION RESPONSE     | MM                            |
| 5    | 5 < SECURITY MODE COMMAND RRC |       | RRC                         |                               |
| 6    | -                             | ->    | SECURITY MODE COMPLETE      | RRC                           |
| 7    | <   SET UP   CC               |       | CC                          |                               |
| 8    | -                             | ->    | CALL CONFIRMED              | CC                            |
| 9    |                               | <     | RADIO BEARER SETUP          | RRC RAB SETUP                 |
| 10   | 10> RADIO                     |       | RADIO BEARER SETUP COMPLETE | RRC                           |
| 11   | -                             | ->    | ALERTING                    | CC (this message is optional) |
| 12   | -                             | ->    | CONNECT                     | CC                            |
| 13   | <                             |       | CONNECT ACKNOWLEDGE         | lcc                           |

### 7.4.2.9.2.1.4 Specific message contents

FFS

### 7.4.2.9.2.2 Mobile originating calls

#### 7.4.2.9.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

#### 7.4.2.9.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.2.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

| Step | Direction | Message                     | Comments      |
|------|-----------|-----------------------------|---------------|
|      | UE SS     |                             |               |
| 1    | >         | CM SERVICE REQUEST          | MM            |
| 2    | <         | AUTHENTICATION REQUEST      | MM            |
| 3    | >         | AUTHENTICATION RESPONSE     | MM            |
| 4    | <         | SECURITY MODE COMMAND       | RRC           |
| 5    | >         | SECURITY MODE COMPLETE      | RRC           |
| 6    | >         | SET UP                      | CC            |
| 7    | <         | CALL PROCEEDING             | CC            |
| 8    | <         | RADIO BEARER SETUP          | RRC RAB SETUP |
| 9    | >         | RADIO BEARER SETUP COMPLETE | RRC           |
| 10   | <         | ALERTING                    | CC            |
| 11   | <         | CONNECT                     | CC            |
| 12   | >         | CONNECT ACKOWLEDGE          | CC            |

#### 7.4.2.9.2.2.4 Specific message contents

**FFS** 

### 8 Test USIM Parameters

### 8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 3GPP TS 31.120 and 3GPP TS31.121.

#### 8.1.1 Definitions

#### "Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in TS 31.101 and TS 31.102.

### "Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

### 8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in TS 33.102 [24] and TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for resynchronisation requests is needed. The definition of the test algorithm are the functions f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization are f1\* and f5\*.

For test USIM intended to be used for inter-RAT test cases then the test USIM shall support the conversion function c3 according to TS 33.102 [24] clause 6.8.1.2 to derive the GSM ciphering key Kc from the UMTS cipher/integrity keys CK and IK.

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

### 8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions f1, f2, f3, f4 and f5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK, IK, Kc and AK respectively, to be used in the authentication and key agreement procedure.

#### Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

```
XDOUT[bits 0,1, \dots 126,127] = K [bits 0,1, \dots 126,127] XOR RAND[bits 0,1, \dots 126,127]
```

#### Step 2:

**RES** (test USIM), **XRES** (SS), **CK**, **IK** and **AK** are extracted from **XDOUT** this way:

```
RES[bits 0,1, ... n-1, n] = f2(XDOUT,n) = XDOUT[bits 0,1, ... n-1, n] (with 30 < n < 128)
```

NOTE: Suggested length for RES is 128 bits (i.e. n = 127). In SS and AUC, the XRES calculation is identical to RES.

```
CK[bits 0,1,...126,127] = f3(XDOUT) = XDOUT[bits 8,9,...126,127,0,1,...6,7]
```

$$IK[bits 0,1,...126,127] = f4(XDOUT) = XDOUT[bits 16,17,...126,127,0,1,...14,15]$$

```
\mathbf{AK}[\text{bits } 0,1,\ldots 46,47] \hspace{0.5cm} = \hspace{0.5cm} \mathbf{f4}(\mathbf{XDOUT}) \hspace{0.5cm} = \hspace{0.5cm} \mathbf{XDOUT}[\text{bits } 24,25,\ldots 70,71]
```

For test USIM intended for inter-RAT testing the GSM ciphering key Kc shall be derived from the UMTS cipher/integrity keys:

```
Kc[bits 0,1,...62,63] = c3(CK,IK), see TS 33.102 clause 6.8.1.2
```

#### Step 3:

Concatenate **SQN** with **AMF** to obtain **CDOUT** like this:

```
CDOUT[bits 0,1,...62,63] = SQN[bits 0,1,...46,47] || AMF[bits 0,1,...14,15]
```

NOTE: For test USIM the  $\mathbf{SQN} = \mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}$  [bits 0,1,...46,47] =  $\mathbf{AUTN}$  [bits 0,1,...46,47] XOR  $\mathbf{AK}$  [bits 0,1,...46,47] where AUTN is the received authentication token.

#### Step 4:

XMAC (test USIM) and MAC (SS) are calculated from XDOUT and CDOUT this way:

**XMAC**[bits  $0,1,\ldots.62,63$ ] =  $\mathbf{f1}(\mathbf{XDOUT},\mathbf{CDOUT})$  =  $\mathbf{XDOUT}$ [bits  $0,1\ldots.62,63$ ] XOR  $\mathbf{CDOUT}$ [bits  $0,1,\ldots.62,63$ ]

NOTE: In SS and AUC, the MAC calculation is identical to XMAC

#### Step 5:

The SS calculates the authentication token AUTN:

**AUTN**[bits 0,1,..126,127] = **SQN** 
$$\oplus$$
 **AK**[bits 0,1,...46,47] || **AMF**[bits 0,1,...14,15] || **MAC**[bits 0,1,...62, 63] Where **SQN**  $\oplus$  **AK**[bits 0,1,...46,47] = **SQN**[bits 0,1,...46,47] XOR **AK**[bits 0,1,...46,47]

### 8.1.2.2 Generation of re-synchronisation parameters in the USIM

For SS to be able to initiate an authentication re-synchronisation procedure a specific AMF value has been defined.

$$AMF_{RESYNCH} = AMF[bits 0,1,...14,15] = "1111 1111 1111 1111"$$

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the AMF<sub>RESYNCH</sub> value then the test USIM shall initiate the re-synchronisation procedure.

When the test USIM starts the re-synchronisation procedure, the MAC-S and AK have to be calculated using the functions f1\* and f5\*, which in the test algorithm are identical to f1 and f5, respectively.

#### Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

### Step 2:

AK is extracted from XDOUT this way:

$$AK[bits 0,1,...46,47] = f5*(XDOUT) = XDOUT[bits 24,25,...70,71]$$

#### Step 3:

Concatenate  $SQN_{MS}$  with  $AMF^*$  to obtain CDOUT like this:

**CDOUT**[bits 0,1,...62,63] = **SQN**<sub>MS</sub>[bits 0,1,...46,47] 
$$\parallel$$
 **AMF**\*[bits 0,1,...14,15]

Where AMF\* assumes a dummy value of all zeros

NOTE: For test USIM the  $\mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTN is the received authentication token.}$ 

For SS and AUC the  $\mathbf{SQN_{MS}} = \mathbf{AUTS}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTS is the received re-synchronisation parameter.}$ 

#### Step 4:

MAC-S is calculated from XDOUT and CDOUT this way:

```
MAC-S[bits 0,1, . . .62, 63] = f1*(XDOUT, CDOUT) = XDOUT[bits 0,1. . .62,63] XOR CDOUT[bits 0,1, . . .62,63]
```

NOTE: In SS and AUC, the XMAC-S calculation is identical to MAC-S.

#### Step 5:

The test USIM calculates the re-synchronisation parameter **AUTS**:

**AUTS**[bits 0,1,..110,111] =  $\mathbf{SQN_{MS}} \oplus \mathbf{AK}$ [bits 0,1,...46,47]  $\parallel \mathbf{MAC-S}$ [bits 0,1,...62, 63]

Where  $\mathbf{SQN_{MS}} \oplus \mathbf{AK}[\text{bits } 0,1,\dots46,47] = \mathbf{SQN_{MS}}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47]$ 

#### 8.1.2.3 Using the authentication test algorithm for UE conformance testing

#### 8.1.2.3.1 Authentication accept case

The authentication accept case is illustrated in figure 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF<sub>RESYNCH</sub> value.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter the test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4). The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

The test USIM checks that XMAC = MAC and then return the RES, CK and IK parameters to the ME.

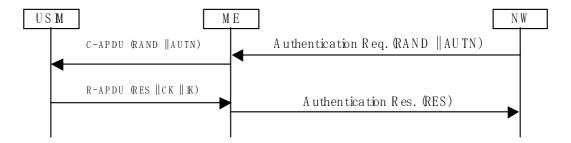


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

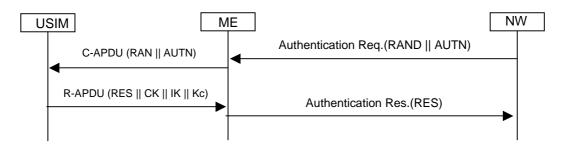


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

#### 8.1.2.3.2 MAC failure case

The MAC failure case is illustrated in figure 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF<sub>RESYNCH</sub> value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter The test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4).

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the calculated XMAC value is different from the MAC value received in AUTN then the USIM notifies the ME of the MAC failure and the ME sends an AUTENTICATION FAILURE message to the SS (cause "MAC failure").

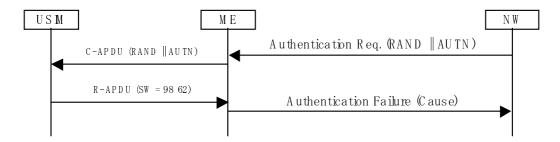


Figure 8.1.2.3.2: MAC failure cases

#### 8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value equal to AMF<sub>RESYNCH</sub>.

The SS sends an authentication request, including RAND and AUTN parameters, to the UE/USIM.

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the AMF field is equal to the AMF<sub>RESYNCH</sub> value it calculates the re-synchronisation parameter AUTS as specified in clause 8.1.2.2 (step 1 to 5) and forward it to the ME.

The ME sends an AUTHENTICATION FAILURE message to the SS including the AUTS parameter.

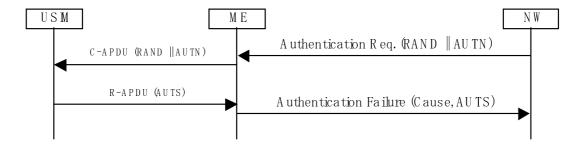


Figure 8.1.2.3.3: SQN failure case

### 8.2 Default Parameters for the test USIM

K:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 00

Bytes 2 (HEX): 01 Bytes 3 (HEX): 02 Bytes 4 (HEX): 03 Bytes 5 (HEX): 04

Bytes 6 (HEX): 05

Bytes 7 (HEX): 06

Bytes 8 (HEX): 07

Bytes 9 (HEX): 08

Bytes 10 (HEX): 09

Bytes 11 (HEX): 0A

Bytes 12 (HEX): 0B

Bytes 13 (HEX): 0C

Bytes 14 (HEX): 0D

Bytes 15 (HEX): 0E

Bytes 16 (HEX): 0F

### PIN Disabling:

The PIN enabled / disabled flag will be set to "PIN Disabled". This ensures that when the Test USIM is inserted into a UE the user will not be prompted for PIN entry.

# 8.3 Default settings for the Elementary Files (EFs)

The format and coding of elementary files of the USIM are defined in TS31.101 and TS31.102. The following clauses define the default parameters to be programmed into each elementary file. Some files may be updated by the UE based on information received from the SS. These are identified in the following clauses.

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This clause suggests values in these cases.

### 8.3.1 Contents of the EFs at the MF level

### 8.3.1.1 EF<sub>DIR</sub>

### 8.3.1.2 EF<sub>ICCID</sub> (ICC Identity)

The programming of this EF is a test house option.

#### 8.3.1.3 EF<sub>PI</sub> (Preferred Languages)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.1.4 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

### 8.3.2 Contents of files at the USIM ADF (Application DF) level

### 8.3.2.1 $EF_{II}$ (Language Indication)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.2.2 EF<sub>IMSI</sub> (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2-9 (HEX):09 10 10 \*\* \*\* \*\* \*\*

"\*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

063-125, 189-251, 315-377, 441-503, 567-629, 693-755, 819-881 or 945-999

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

### 8.3.2.3 EF<sub>Keys</sub> (Ciphering and Integrity Keys)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.2.4 EF<sub>KevsPS</sub> (Ciphering and Integrity Keys for Packet Switched domain)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.2.5 EF<sub>PLMNwAcT</sub> (User controlled PLMN selector with Access Technology)

File size: 5n bytes

Default values (HEX): Bytes 1-3: 32 F4 10 (MCC, MNC) - Translates to 234, 01

Bytes 4-5: 80 00 (Access Technology) – Translates to UTRAN

Bytes 6-8: 32 F4 20 (MCC, MNC)

Bytes 9-10: 80 00 (Access Technology)

Bytes 11-13: 32 F4 30 (MCC, MNC)

••••

••••

Bytes(5n-4) - (5n-2): 32 F4 43 (MCC, MNC)

Bytes (5n-1) - 5n: 80 00 (Access Technology)

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

### 8.3.2.6 EF<sub>HPI MN</sub> (HPLMN search period)

File size: 1 byte

Default value (HEX): 00 (no HPLMN search attempts)

### 8.3.2.7 EF<sub>ACMmax</sub> (ACM maximum value)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not valid".

# 8.3.2.8 EF<sub>UST</sub> (USIM Service Table)

Services will be allocated and activated as follows:

| Services                                            |                                                          | Activated |
|-----------------------------------------------------|----------------------------------------------------------|-----------|
| Service n°1:                                        | Local Phone Book                                         | Option    |
| Service n°2 :                                       | Fixed Dialling Numbers (FDN) Option                      |           |
| Service n°3 :                                       | Extension 2                                              | Option    |
| Service n°4 :                                       | Service Dialling Numbers (SDN)                           | Option    |
| Service n°5 :                                       | Extension3                                               | Option    |
| Service n°6 :                                       | Barred Dialling Numbers (BDN)                            | Option    |
| Service n°7 :                                       | Extension4                                               | Option    |
| Service n°8 :                                       | Outgoing Call Information (OCI and OCT)                  | Option    |
| Service n°9 :                                       | Incoming Call Information (ICI and ICT)                  | Option    |
| Service n°10:                                       | Short Message Storage (SMS)                              | Yes       |
| Service n°11:                                       | Short Message Status Reports (SMSR)                      | Option    |
| Service n°12:                                       | Short Message Service Parameters (SMSP)                  | Yes       |
| Service n°13:                                       | Advice of Charge (AoC)                                   | Yes       |
| Service n°14:                                       | Capability Configuration Parameters (CCP)                | Yes       |
| Service n°15:                                       | Cell Broadcast Message Identifier                        | Yes       |
| Service n°16:                                       | Cell Broadcast Message Identifier Ranges                 | Yes       |
| Service n°17:                                       | Group Identifier Level 1                                 | Option    |
| Service n°18:                                       | Group Identifier Level 2                                 | Option    |
| Service n°19:                                       | Service Provider Name                                    | Option    |
|                                                     |                                                          | Yes       |
| Service n°21:                                       | 0.                                                       |           |
| Service n°22:                                       | ice n°22: Image (IMG) Option                             |           |
| Service n°23:                                       |                                                          |           |
| Service n°24:                                       |                                                          |           |
| Service n°25:                                       |                                                          |           |
| Service n°26:                                       |                                                          |           |
| Service n°27:                                       |                                                          |           |
| Service n°28: Data download via SMS-PP Option       |                                                          | Option    |
| Service n°29:                                       | Data download via SMS-CB                                 | Option    |
| Service n°30:                                       | Call Control by USIM                                     | Option    |
| Service n°31:                                       | MO-SMS Control by USIM                                   | Option    |
| Service n°32:                                       | RUN AT COMMAND command                                   | Option    |
| Service n°33:                                       | Packet Switched Domain                                   | Yes       |
| Service n°34:                                       | Enabled Services Table                                   | Yes       |
| Service n°35:                                       | APN Control List (ACL)                                   | Option    |
| Service n°36: Depersonalisation Control Keys Option |                                                          |           |
| Service n°37:                                       |                                                          |           |
| Service n°38:                                       | GSM security context                                     | Yes       |
| Service n°39:                                       | CPBCCH Information                                       | Yes       |
| Service n°40:                                       | Investigation Scan                                       | Yes       |
| Service n°41:                                       | MExE                                                     | Option    |
| Service n°42                                        | Operator controlled PLMN selector with Access Technology | Yes       |
| Service n°43                                        | HPLMN selector with Access Technology                    | Yes       |

# 8.3.2.9 EF<sub>ACM</sub> (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not yet implemented".

### 8.3.2.10 EF<sub>GID1</sub> (Group Identifier Level 1)

The programming of this EF is a test house option.

### 8.3.2.11 EF<sub>GID2</sub> (Group Identifier Level 2)

The programming of this EF is a test house option.

### 8.3.2.12 EF<sub>SPN</sub> (Service Provider Name)

The programming of this EF is a test house option.

### 8.3.2.13 EF<sub>PUCT</sub> (Price per Unit and Currency Table)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.2.14 EF<sub>CBMI</sub> (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

### 8.3.2.15 EF<sub>ACC</sub> (Access Control Class)

The EFACC can be selected by a test house in two types.

Type A;

File size: 2 Bytes

Default values (BIN): Byte 1: 000000\*\*

Byte 2: \*\*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

Default values (BIN): Byte 1: 111110\*\*

Byte 2: \*\*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

### 8.3.2.16 EF<sub>FPLMN</sub> (Forbidden PLMNs)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.2.17 EF<sub>LOCI</sub> (Location Information)

File size: 11 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (TMSI)

Bytes 5-9 (HEX): 42 F6 18 FF FE (LAI)

Byte 10 (HEX): FF (RFU)

Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5-9: LAI-MCC = 246 (bytes 5-6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8-9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

### 8.3.2.18 EF<sub>AD</sub> (Administrative Data)

File size: 4 bytes

Default values Byte 1: 10000000 - (type approval operations)

Byte 2: 000000000

Byte 3: 000000000

Byte 4: 00000010

### 8.3.2.19 Void

### 8.3.2.20 EF<sub>CBMID</sub> (Cell Broadcast Message Identifier for Data Download)

The programming of this EF follows default parameter written in TS31.102 Annex E.

#### 8.3.2.21 EF<sub>FCC</sub> (Emergency Call Codes)

The programming of this EF is a test house option.

### 8.3.2.22 EF<sub>CBMIR</sub> (Cell Broadcast Message Identifier Range selection)

The programming of this EF follows default parameter written in TS31.102 Annex E.

### 8.3.2.23 EF<sub>PSI OCI</sub> (Packet Switched location information)

File size: 14 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (P-TMSI)

Bytes 5-7 (HEX): FF FF FF (P-TMSI signature value)

Bytes 8-13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

Bytes 8-13: RAI-MCC = 246 (bytes 8-9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11-12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

### 8.3.2.24 EF<sub>FDN</sub> (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.25 EF<sub>SMS</sub> (Short messages)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.26 EF<sub>MSISDN</sub> (MSISDN)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.27 EF<sub>SMSP</sub> (Short message service parameters)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.28 $EF_{SMSS}$ (SMS status)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.29 EF<sub>SDN</sub> (Service Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.30 $EF_{EXT2}$ (Extension2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.31 $EF_{EXT3}$ (Extension3)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.32 EF<sub>SMSR</sub> (Short message status reports)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.33 EF<sub>ICI</sub> (Incoming Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.34 EF<sub>OCI</sub> (Outgoing Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.35 EF<sub>ICT</sub> (Incoming Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.36 EF<sub>OCT</sub> (Outgoing Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.37 $EF_{EXT5}$ (Extension5)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.38 EF<sub>CCP2</sub> (Capability Configuration Parameters 2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.39 EF<sub>eMLPP</sub> (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

### 8.3.2.40 EF<sub>AAeM</sub> (Automatic Answer for eMLPP Service)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.41 EF<sub>GMSI</sub> (Group Identity)

This clause is expected to be defined in the release 2000 version of the present document.

### 8.3.2.42 EF<sub>Hiddenkev</sub> (Key for hidden phone book entries)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.43 Void

### 8.3.2.44 EF<sub>BDN</sub> (Barred dialling numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.45 $EF_{EXT4}$ (Extension 4)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.46 EF<sub>CMI</sub> (Comparison method information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.47 EF<sub>FST</sub> (Enabled service table)

The programming of this EF is a test house option.

### 8.3.2.48 EF<sub>ACI</sub> (Access point name control list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.49 EF<sub>DCK</sub> (Depersonalisation control keys)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.50 EF<sub>CNL</sub> (Co-operative network list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.51 EF<sub>START-HFN</sub> (Initialisation values for Hyperframe number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.52 EF<sub>THRESHOLD</sub> (Maximum value of START)

The programming of this EF is a test house option.

### 8.3.2.53 EF<sub>OPLMNsel</sub> (OPLMN selector)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.54 EF<sub>PHPI MNAT</sub> (Preferred HPLMN Access Technology)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.2.55 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

8.3.2.56 Void

### 8.3.2.57 EF<sub>NETPAR</sub> (Network Parameters)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3 Contents of DFs at the USIM ADF (Application DF) level

### 8.3.3.1 Contents of files at the USIM SoLSA level

### 8.3.3.1.1 EF<sub>SAI</sub> (SoLSA Access Indicator)

This clause is expected to be defined in the release 2000 version of the present document.

### 8.3.3.1.2 EF<sub>SLL</sub> (SoLSA LSA List)

This clause is expected to be defined in the release 2000 version of the present document.

#### 8.3.3.1.3 LSA Descriptor files

This clause is expected to be defined in the release 2000 version of the present document.

### 8.3.3.1.4 Contents of files at the MExE level

### 8.3.3.1.4.1 EF<sub>MExE-ST</sub> (MExE Service table)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.1.4.2 EF<sub>ORPK</sub> (Operator Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.1.4.3 EF<sub>ARPK</sub> (Administrator Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.1.4.4 EF<sub>TPRPK</sub> (Third Party Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.1.4.5 EF<sub>TKCDF</sub> (Trusted Key/Certificates Data Files)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2 Contents of files at the DF PHONEBOOK level

### 8.3.3.2.1 EF<sub>PBR</sub> (Phone Book Reference file)

The programming of this EF is a test house option.

### 8.3.3.2.2 EF<sub>IAP</sub> (Index Administration Phone book)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.3 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.4 $EF_{EXT1}$ (Extension1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.5 EF<sub>PBC</sub> (Phone Book Control)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.6 EF<sub>GRP</sub> (Grouping file)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.7 EF<sub>AAS</sub> (Additional number Alpha String)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.8 EF<sub>GAS</sub> (Grouping information Alpha String)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.9 EF<sub>ANR</sub> (Additional Number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.10 EF<sub>SNE</sub> (Second Name Entry)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.11 EF<sub>CCP1</sub> (Capability Configuration Parameters 1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.12 Phone Book Synchronisation

#### 8.3.3.2.12.1 EF<sub>UID</sub> (Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.3.2.12.2 EF<sub>PSC</sub> (Phone book Synchronisation Counter)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.3 EF<sub>CC</sub> (Change Counter)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.4 EF<sub>PUID</sub> (Previous Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.13 EF<sub>EMAIL</sub> (e-mail address)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.3 Contents of files at the DF GSM level (Files required for GSM Access)

8.3.3.3.1  $EF_{Kc}$  (GSM Ciphering key Kc)

File size: 9 Bytes

Default values (HEX): Bytes 1-8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

8.3.3.3.2 EF<sub>KcGPRS</sub> (GPRS Ciphering key KcGPRS)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.3.3 Void

8.3.3.3.4 EF<sub>CPBCCH</sub> (CPBCCH Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.5 EF<sub>InvScan</sub> (Investigation Scan)

The programming of this EF follows default parameter.

### 8.3.4 Contents of EFs at the TELECOM level

### 8.3.4.1 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

8.3.4.2  $EF_{EXT1}$  (Extension1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.4.3 EF<sub>ECCP</sub> (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF<sub>SUME</sub> (SetUpMenu Elements)

The programming of this EF is a test house option.

### 8.3.4.5 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.5 Contents of DFs at the TELECOM level

### 8.3.5.1 Contents of files at the DF<sub>GRAPHICS</sub> level

### 8.3.5.1.1 EF<sub>IMG</sub> (Image)

The programming of this EF follows default parameter written in TS 31.102 annex E.

### 8.3.5.1.2 Image Instance Data Files

### 8.3.5.2 Contents of files at the DF<sub>PHONEBOOK</sub> under the DF<sub>TELECOM</sub>

The programming of this EF is a test house option.

# 9 Default Message Contents

# 9.1 Default Message Contents for Signalling

### 9.1.1 Default RRC Message Contents (FDD)

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of TS 34.123-1, shall be transmitted and checked by the system simulator.

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements which are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

### **Default SYSTEM INFORMATION:**

NOTE:

SYSTEM INFORMATION BLOCK TYPE 1 (except for PLMN type "GSM-MAP"), SYSTEM INFORMATION BLOCK TYPE 8, SYSTEM INFORMATION BLOCK TYPE 9, SYSTEM INFORMATION BLOCK TYPE 10, SYSTEM INFORMATION BLOCK TYPE 14, SYSTEM INFORMATION BLOCK TYPE 15 and SYSTEM INFORMATION BLOCK TYPE 16 messages are not used.

### Contents of ACTIVE SET UPDATE message: AM

| Information Element                             | Value/remark                                                 |  |
|-------------------------------------------------|--------------------------------------------------------------|--|
| Message Type                                    |                                                              |  |
| RRC transaction identifier                      | Arbitrarily selects one integer between 0 to 3               |  |
| Integrity check info                            |                                                              |  |
| - message authentication code                   | SS calculates the value of MAC-I for this message and        |  |
|                                                 | writes to this IE. The first/ leftmost bit of the bit string |  |
|                                                 | contains the most significant bit of the MAC-I.              |  |
| <ul> <li>RRC message sequence number</li> </ul> | SS provides the value of this IE, from its internal counter. |  |
| Activation time                                 | now                                                          |  |
| New U-RNTI                                      | Not Present                                                  |  |
| CN information info                             | Not Present                                                  |  |
| Maximum allowed UL TX power                     | Not Present – use default value                              |  |
| Radio link addition information                 | Not Present                                                  |  |

| Information Element            | Value/remark |       |
|--------------------------------|--------------|-------|
| Radio link removal information | Not Present  |       |
| TX Diversity Mode              | None         |       |
| SSDT information               | Not Present  |       |
| DPC Mode                       | [FFS]        | REL-5 |

### Contents of ACTIVE SET UPDATE COMPLETE message: AM

| Information Element           | Value/remark                                                                                                                                                           |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                        |
| RRC transaction identifier    | Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message                                                               |
| Integrity check info          |                                                                                                                                                                        |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most |
| - RRC Message sequence number | significant bit of the MAC-I.  This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                        |

### Contents of ACTIVE SET UPDATE FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message                                                                                             |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Refer to test requirement                                                                                                                                                                            |

Contents of CELL UPDATE message: TM

| Information Element                       | Value/remark                                                   | Version |
|-------------------------------------------|----------------------------------------------------------------|---------|
| Message Type                              |                                                                |         |
| U-RNTĬ                                    | Checked to see if it is set to the following values            |         |
| - SRNC identity                           | 0000 0000 0001B                                                |         |
| - S-RNTI                                  | 0000 0000 0000 0000 0001B                                      |         |
| RRC transaction identifier                | Checked to see if it is absent                                 |         |
| Integrity check info                      |                                                                |         |
| - Message authentication code             | This IE is checked to see if it is present. The value is       |         |
|                                           | compared against the XMAC-I value computed by SS.              |         |
|                                           | The first/ leftmost bit of the bit string contains the most    |         |
|                                           | significant bit of the MAC-I.                                  |         |
| - RRC Message sequence number             | This IE is checked to see if it is present. The value is       |         |
|                                           | used by SS to compute the XMAC-I value.                        |         |
| START List                                | Checked to see if the 'CN domain identity' and 'START'         |         |
|                                           | IEs are present for all CN domains supported by the UE (if     |         |
|                                           | Ciphering is ON).                                              |         |
| - CN domain identity                      | Checked to see if it is one of the supported CN domains        |         |
| - START                                   | Check the presence if ciphering is on. The first/ leftmost     |         |
|                                           | bit of the bit string contains the most significant bit of the |         |
|                                           | START.                                                         |         |
| AM_RLC error indication (RB2, RB3 or RB4) | Checked to see if it is set to 'FALSE'                         |         |
| AM_RLC error indication (RB>4)            | Checked to see if it is set to 'FALSE'                         |         |
| Cell update cause                         | See the specific test case                                     |         |
| Failure cause                             | Checked to see if it is absent                                 |         |
| RB timer indicator                        |                                                                |         |
| - T314 expired                            | Checked to see if it is set to 'FALSE'                         |         |
| - T315 expired                            | Checked to see if it is set to 'FALSE'                         |         |
| Establishment cause                       | See the specific test case                                     | REL-5   |
| Measured results on RACH                  | Not checked                                                    | ]       |

### Contents of CELL UPDATE CONFIRM message: UM

| Information Element | Value/remark                                       | n |
|---------------------|----------------------------------------------------|---|
| Message Type        |                                                    |   |
| U-RNTI              | If this message is sent on CCCH, use the following |   |
|                     | values. Else, this IE is absent.                   |   |

| 00010:1 ()                                      | 0000 0000 0004 B                                             | Г     |
|-------------------------------------------------|--------------------------------------------------------------|-------|
| - SRNC identity                                 | 0000 0000 0001B                                              |       |
| - S-RNTI                                        | 0000 0000 0000 0000 0001B                                    |       |
| RRC transaction identifier                      | Selects an arbitrary integer between 0 to 3                  |       |
| Integrity check info                            |                                                              |       |
| - message authentication code                   | SS calculates the value of MAC-I for this message and        |       |
|                                                 | writes to this IE. The first/ leftmost bit of the bit string |       |
|                                                 | contains the most significant bit of the MAC-I.              |       |
| <ul> <li>RRC message sequence number</li> </ul> | SS provides the value of this IE, from its internal          |       |
|                                                 | counter.                                                     |       |
| Integrity protection mode info                  | Not Present                                                  |       |
| Ciphering mode info                             | Not Present                                                  |       |
| Activation time                                 | Not Present – use default value                              |       |
| New U-RNTI                                      | Not Present                                                  |       |
| New C-RNTI                                      | Not Present                                                  |       |
| New DSCH-RNTI                                   | Not Present                                                  |       |
| New H-RNTI                                      | Not Present                                                  | REL-5 |
| RRC State indicator                             | CELL_FACH                                                    |       |
| UTRAN DRX cycle length coefficient              | Not Present                                                  |       |
| RLC re-establish indicator (RB2, RB3 and        | FALSE                                                        |       |
| RB4)                                            |                                                              |       |
| RLC re-establish indicator (RB5 and             | FALSE                                                        |       |
| upwards)                                        |                                                              |       |
| CN information info                             | Not Present                                                  |       |
| URA identity                                    | Not Present                                                  |       |
| RB information to release list                  | Not Present                                                  |       |
| RB information to reconfigure list              | Not Present                                                  |       |
| RB information to be affected list              | Not Present                                                  |       |
| Downlink counter synchronisation info           | Not Present                                                  |       |
| UL Transport channel information common         | Not Present                                                  |       |
| for all transport channels                      |                                                              |       |
| Deleted TrCH information list                   | Not Present                                                  |       |
| Added or Reconfigured TrCH information list     | Not Present                                                  |       |
| CHOICE Mode                                     | FDD                                                          |       |
| - CPCH set ID                                   | Not Present                                                  |       |
| - Added or Reconfigured TrCH                    | Not Present                                                  |       |
| information for DRAC list                       |                                                              |       |
| DL Transport channel information common         | Not Present                                                  |       |
| for all transport channels                      |                                                              |       |
| Deleted TrCH information list                   | Not Present                                                  |       |
| Added or Reconfigured TrCH information list     | Not Present                                                  |       |
| Frequency info                                  | Not Present                                                  |       |
| Maximum allowed UL TX power                     | Not Present                                                  |       |
| CHOICE channel requirement                      | Not Present                                                  |       |
| CHOICE mode                                     | FDD                                                          |       |
| - Downlink PDSCH information                    | Not Present                                                  |       |
| Downlink HS-PDSCH Information                   | Not Present                                                  | REL-5 |
| Downlink information common for all radio       | Not Present                                                  |       |
| links                                           |                                                              |       |
| Downlink information per radio link list        | Not Present                                                  |       |

# Contents of DOWNLINK DIRECT TRANSFER message: $\ensuremath{\mathsf{AM}}$

| Information Element           | Value/remark                                                 |
|-------------------------------|--------------------------------------------------------------|
| Message Type                  |                                                              |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3               |
| Integrity check info          |                                                              |
| - Message authentication code | SS calculates the value of MAC-I for this message and        |
|                               | writes to this IE. The first/ leftmost bit of the bit string |
|                               | contains the most significant bit of the MAC-I.              |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter. |
| CN domain identity            | CS domain or PS domain                                       |
| NAS message                   | See Specific Message Content for each test case              |

### Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

| Information Element             | Value/remark                                                                                                                                                                                                                                                                                      |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                    |                                                                                                                                                                                                                                                                                                   |
| RRC transaction identifier      | Arbitrarily selects one integer between 0 to 3                                                                                                                                                                                                                                                    |
| Integrity check info            |                                                                                                                                                                                                                                                                                                   |
| - Message authentication code   | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                                                                                |
| - RRC Message sequence number   | SS provides the value of this IE, from its internal counter.                                                                                                                                                                                                                                      |
| Activation time                 | now                                                                                                                                                                                                                                                                                               |
| RAB Info                        |                                                                                                                                                                                                                                                                                                   |
| - RAB identity                  | 0000 0001B                                                                                                                                                                                                                                                                                        |
|                                 | The first/ leftmost bit of the bit string contains the most                                                                                                                                                                                                                                       |
|                                 | significant bit of the RAB identity.                                                                                                                                                                                                                                                              |
| - CN domain identity            | CS domain                                                                                                                                                                                                                                                                                         |
| - NAS Synchronization Indicator | Not present                                                                                                                                                                                                                                                                                       |
| - Re-establishment timer        | Use T315                                                                                                                                                                                                                                                                                          |
| Inter-system message            |                                                                                                                                                                                                                                                                                                   |
| - CHOICE System type            | GSM                                                                                                                                                                                                                                                                                               |
| - Frequency Band                | Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"                                                                                                                                                                                                |
| - CHOICE GSM message            | Single GSM message                                                                                                                                                                                                                                                                                |
| - Single GSM message            | GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1512). The first/ leftmost/ most significant bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case. |

# Contents of HANDOVER FROM UTRAN FAILURE message: AM

| Information Element               | Value/remark                                                                                                                                                                                         |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                      |                                                                                                                                                                                                      |
| RRC transaction identifier        | Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND –GSM message                                                                              |
| Integrity check info              |                                                                                                                                                                                                      |
| - Message authentication code     | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number     | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Inter-RAT handover failure        |                                                                                                                                                                                                      |
| -Inter-RAT handover failure cause | physical channel failure                                                                                                                                                                             |
| Inter-system message              | Not Checked                                                                                                                                                                                          |

### Contents of INITIAL DIRECT TRANSFER message: AM

| Message Type Integrity check info - Message authentication code  This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by Ss. The first/ leftmost bit of the bit string contains the most significant bit of the bit string contains the most significant bit of the MAC-I.  RRC Message sequence number  This IE is checked to see if it is present. The value is used by Ss to compute the XMAC-I value.  CN domain identity  Checked to see if set to supported CN domain as specified in the IXIT statements.  R89  CHOICE Version - CHOICE Routing basis - Routing parameter  R89  GSM-MAP Local (P)TMSI If the IE "CN domain identity" is equal to "CS domain", this bit string is set to to bits b14 through b23 of the TMSI. If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the PTMSI. The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. Not checked  START  Set according to that indicated in specific message content for each test case Not checked (if ciphering is OFF), check the presence if ciphering is OFF), check the presence if ciphering is ON. See the specific test case REL-5 Measured results on RACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Information Element                      | Value/remark                                                                                                                                  | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|
| This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the bit string contains the most significant bit of the bit string contains the most significant bit of the bit string contains the most significant bit of the MAC-I.  RRC Message sequence number  This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.  CN domain identity  Checked to see if set to supported CN domain as specified in the IXIT statements.  Regenory  GSM-MAP  CHOICE version  CHOICE Routing basis  Routing parameter  If the IE "CN domain identity" is equal to "CS domain", this bit string is set to to bits b14 through b23 of the TMSI.  If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI.  The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/PTMSI.  The first/leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/PTMSI.  Not checked  SETART  Not checked (if ciphering is OFF), check the presence if ciphering is OFF).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Message Type                             |                                                                                                                                               |         |
| value is compared against the XMAC-I value computed by SS. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I.  - RRC Message sequence number  - RRS Message sequence number  - RRC Message sequence number  - RRC Message sequence number  - RRC Message sequent number sequent significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  Not checked  - RRC Message sequent number sequent significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  Not checked (if ciphering is OR), check the presence if ciphering is OR).  - RRC Message sequent number sequent sequ | Integrity check info                     |                                                                                                                                               |         |
| value is used by SS to compute the XMAC-I value.  CN domain identity  Checked to see if set to supported CN domain as specified in the IXIT statements.  R99  - CHOICE version  - CHOICE Routing basis  - Routing parameter  R99  - CHOICE Routing basis  - Routing parameter  - CHOICE Routing basis  - Routing parameter  - TMSI/P-TMSI consists of 4 octets (32bits).  The TMSI/P-TMSI consists of 4 octets (32bits).  This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter  Not checked  NAS message  Set according to that indicated in specific message content for each test case  Not checked (if ciphering is OF), check the presence if ciphering is ON.  See the specific test case  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - Message authentication code            | value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the |         |
| Intra Domain NAS Node Selector  - CHOICE version  - CHOICE Routing basis  - Routing parameter  R99  - CHOICE Routing basis  - Routing parameter  If the IE "CN domain identity" is equal to "CS domain", this bit string is set to to bits b14 through b23 of the TMSI.  If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI.  The TMSI/P-TMSI consists of 4 octets (32bits).  This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter  NAS message  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - RRC Message sequence number            | value is used by SS to compute the XMAC-I                                                                                                     |         |
| Intra Domain NAS Node Selector  - CHOICE version  - CHOICE Routing basis  - Routing parameter  - Routing b23 of the TMSI.  - The TMSI/P-TMSI consists of 4 octets (32bits).  - This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  - Routing parameter bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  - Entered parameter  Not checked  NAS message  - Set according to that indicated in specific message content for each test case  START  - Not checked (if ciphering is OFF), check the presence if ciphering is ON.  - See the specific test case  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CN domain identity                       |                                                                                                                                               |         |
| - CHOICE CN type - CHOICE Routing basis - Routing parameter  If the IE "CN domain identity" is equal to "CS domain", this bit string is set to to bits b14 through b23 of the TMSI.  If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI.  The TMSI/P-TMSI consists of 4 octets (32bits).  This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter  NAS message  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is OFF), check the presence if ciphering is ON.  See the specific test case  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Intra Domain NAS Node Selector           | ·                                                                                                                                             |         |
| - CHOICE Routing basis     - Routing parameter  - Routing b23 of the TMSI.  - If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI.  - The TMSI/P-TMSI consists of 4 octets (32bits).  - This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  - Routing parameter bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  - The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  Not checked  NAS message  - Set according to that indicated in specific message content for each test case  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  - Establishment cause  - REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - CHOICE version                         | R99                                                                                                                                           |         |
| - Routing parameter  If the IE "CN domain identity" is equal to "CS domain", this bit string is set to to bits b14 through b23 of the TMSI.  If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI.  The TMSI/P-TMSI consists of 4 octets (32bits).  This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  Not checked  NAS message  Set according to that indicated in specific message content for each test case  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - CHOICE CN type                         | GSM-MAP                                                                                                                                       |         |
| domain", this bit string is set to to bits b14 through b23 of the TMSI. If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI. The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. Not checked NAS message Set according to that indicated in specific message content for each test case START Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul> <li>CHOICE Routing basis</li> </ul> | Local (P)TMSI                                                                                                                                 |         |
| through b23 of the TMSI.  If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI.  The TMSI/P-TMSI consists of 4 octets (32bits).  This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant  The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/PTMSI.  The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/PTMSI.  - Entered parameter  Not checked  NAS message  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul> <li>Routing parameter</li> </ul>    | If the IE "CN domain identity" is equal to "CS                                                                                                |         |
| If the IE "CN domain identity" is equal to "PS domain", this bit string is set to to bits b14 through b23 of the P-TMSI. The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter Not checked NAS message Set according to that indicated in specific message content for each test case START Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          | domain", this bit string is set to to bits b14                                                                                                |         |
| domain", this bit string is set to to bits b14 through b23 of the P-TMSI. The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. Not checked NAS message Set according to that indicated in specific message content for each test case Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |                                                                                                                                               |         |
| through b23 of the P-TMSI. The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter NAS message START Solution Not checked Staccording to that indicated in specific message content for each test case Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |                                                                                                                                               |         |
| The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter NAS message Set according to that indicated in specific message content for each test case START Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |                                                                                                                                               |         |
| This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter NAS message Set according to that indicated in specific message content for each test case START Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                               |         |
| numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter NAS message Set according to that indicated in specific message content for each test case START Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                                                                                                                               |         |
| least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. Not checked NAS message Set according to that indicated in specific message content for each test case START Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                                                                                                                               |         |
| The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI.  The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  Not checked  NAS message  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                               |         |
| bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter NAS message Set according to that indicated in specific message content for each test case Not checked (if ciphering is OFF), check the presence if ciphering is ON. Establishment cause  Bits b14 through b23 of the TMSI/ PTMSI. Not checked String contains bit b23 of the TMSI/ PTMSI. Not checked Set according to that indicated in specific message content for each test case  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                                                                                                                               |         |
| The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter  NAS message  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                                                                                                                               |         |
| string contains bit b23 of the TMSI/ PTMSI.  - Entered parameter  NAS message  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  String contains bit b23 of the TMSI/ PTMSI.  Not checked  important to the total case of the TMSI/ PTMSI.  Not checked  important to the TMSI/ PTMSI.  Important to the TMSI/ PTMSI.  Important to the TMSI/ PTMSI.  Not checked  important to the TMSI/ PTMSI.  Important to the TMSI/ PTMSI/ PTMSI/  Important to the TMSI/ PTMSI/ PTMSI/ PTMSI/  Important to the TMSI/ PTMSI/ PTM |                                          |                                                                                                                                               |         |
| - Entered parameter  Not checked  Set according to that indicated in specific message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |                                                                                                                                               |         |
| NAS message  Set according to that indicated in specific message content for each test case  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  Set according to that indicated in specific message content for each test case  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  See the specific test case  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cutava di navamatav                      | •                                                                                                                                             |         |
| message content for each test case  START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                                                                                                                               |         |
| START  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  Establishment cause  Not checked (if ciphering is OFF), check the presence if ciphering is ON.  See the specific test case  REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NAS message                              |                                                                                                                                               |         |
| presence if ciphering is ON. Establishment cause presence if ciphering is ON. See the specific test case REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CTART                                    |                                                                                                                                               |         |
| Establishment cause See the specific test case REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | START                                    |                                                                                                                                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Establishment cause                      |                                                                                                                                               | DEL 5   |
| INOT CHECKED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                                                                                                                               | NEL-3   |
| ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ivieasured results on KACH               | INOL CHECKED                                                                                                                                  |         |

### Contents of MEASUREMENT CONTROL message: AM

| Information Element                                                          | Value/remark                                                                                                                                                       |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                                 |                                                                                                                                                                    |
| RRC transaction identifier                                                   | Arbitrarily selects an unused integer between 0 to 3                                                                                                               |
| Integrity check info                                                         |                                                                                                                                                                    |
| - Message authentication code                                                | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| <ul> <li>RRC message sequence number</li> </ul>                              | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Measurement Identity                                                         |                                                                                                                                                                    |
| Measurement Command                                                          | Setup                                                                                                                                                              |
| Measurement Reporting Mode                                                   |                                                                                                                                                                    |
| - Measurement Report Transfer Mode                                           | Acknowledged mode RLC                                                                                                                                              |
| <ul> <li>Periodical Reporting/Event Trigger Reporting<br/>Mode</li> </ul>    | Periodical reporting                                                                                                                                               |
| Additional measurement list                                                  | Not Present                                                                                                                                                        |
| CHOICE Measurement type                                                      | Intra-frequency measurement                                                                                                                                        |
| <ul> <li>Intra-frequency measurement</li> </ul>                              |                                                                                                                                                                    |
| <ul> <li>Intra-frequency cell info list</li> </ul>                           |                                                                                                                                                                    |
| <ul> <li>CHOICE intra-frequency cell removal</li> </ul>                      | Not present                                                                                                                                                        |
| - New intra-frequency cell                                                   |                                                                                                                                                                    |
| <ul> <li>Intra-frequency cell-id</li> </ul>                                  | 1                                                                                                                                                                  |
| - Cell info                                                                  |                                                                                                                                                                    |
| - Cell individual offset                                                     | 0dB                                                                                                                                                                |
| <ul> <li>Reference time difference to cell</li> </ul>                        | Not Present                                                                                                                                                        |
| - Read SFN number                                                            | FALSE                                                                                                                                                              |
| - CHOICE mode                                                                | FDD                                                                                                                                                                |
| - Primary CPICH info                                                         |                                                                                                                                                                    |
| - Primary scrambling code                                                    | Different from the Default setting in TS34.108 clause 6.1 (FDD)                                                                                                    |
| <ul> <li>Primary CPICH Tx power</li> </ul>                                   | Not Present                                                                                                                                                        |
| - TX Diversity indicator                                                     | FALSE                                                                                                                                                              |
| <ul> <li>Cells for measurement</li> </ul>                                    | Not present                                                                                                                                                        |
| <ul> <li>Intra-frequency measurement quantity</li> </ul>                     | Not Present                                                                                                                                                        |
| - Intra-frequency reporting quantity                                         |                                                                                                                                                                    |
| - Reporting quantities for active set cells                                  | - N 05                                                                                                                                                             |
| <ul> <li>Cell synchronisation information reporting<br/>indicator</li> </ul> | FALSE                                                                                                                                                              |
| <ul> <li>Cell Identity reporting indicator</li> </ul>                        | TRUE                                                                                                                                                               |
| <ul> <li>CPICH Ec/N0 reporting indicator</li> </ul>                          | FALSE                                                                                                                                                              |
| <ul> <li>CPICH RSCP reporting indicator</li> </ul>                           | TRUE                                                                                                                                                               |
| <ul> <li>Pathloss reporting indicator</li> </ul>                             | FALSE                                                                                                                                                              |
| <ul> <li>Reporting quantities for monitored set cells</li> </ul>             |                                                                                                                                                                    |
| <ul> <li>Cell synchronisation information reporting<br/>indicator</li> </ul> | FALSE                                                                                                                                                              |
| <ul> <li>Cell Identity reporting indicator</li> </ul>                        | TRUE                                                                                                                                                               |
| <ul> <li>CPICH Ec/N0 reporting indicator</li> </ul>                          | FALSE                                                                                                                                                              |
| <ul> <li>CPICH RSCP reporting indicator</li> </ul>                           | TRUE                                                                                                                                                               |
| <ul> <li>Pathloss reporting indicator</li> </ul>                             | FALSE                                                                                                                                                              |
| <ul> <li>Reporting quantities for detected set cells</li> </ul>              | Not Present                                                                                                                                                        |
| - Reporting cell status                                                      | J                                                                                                                                                                  |
| - CHOICE reported cell                                                       | Report cell within active set and/or monitored cells on used frequency                                                                                             |
| <ul> <li>Maximum number of reported cells</li> </ul>                         | 2                                                                                                                                                                  |
| - Measurement validity                                                       | Not Present                                                                                                                                                        |
| - CHOICE report criteria                                                     | Periodic reporting criteria                                                                                                                                        |
| - Amount of reporting                                                        | Infinity                                                                                                                                                           |
| - Reporting interval                                                         | 64 sec                                                                                                                                                             |
| DPCH Compressed mode status info                                             | Not Present                                                                                                                                                        |

### Contents of MEASUREMENT CONTROL FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                           |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                        |
| RRC transaction identifier    | Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message                                                          |
| Integrity check info          |                                                                                                                                                                        |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most |
| - RRC Message sequence number | significant bit of the MAC-I.  This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                        |
| Failure cause                 | See the test content                                                                                                                                                   |

### Contents of MEASUREMENT REPORT message: AM

| Information Element                                         | Value/remark                                                                                                                                                                                         | Version |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                                |                                                                                                                                                                                                      |         |
| Integrity check info                                        |                                                                                                                                                                                                      |         |
| - Message authentication code                               | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Measurement identity                                        | 1                                                                                                                                                                                                    |         |
| Measured Results                                            |                                                                                                                                                                                                      |         |
| <ul> <li>Intra-frequency measured results</li> </ul>        |                                                                                                                                                                                                      |         |
| <ul> <li>Cell measured results</li> </ul>                   |                                                                                                                                                                                                      |         |
| - Cell Identity                                             | Not present                                                                                                                                                                                          |         |
| - Cell synchronisation information     - Primary CPICH info | Checked that this IE is absent                                                                                                                                                                       |         |
| - Primary scrambling code                                   | Different from the Default setting in                                                                                                                                                                |         |
|                                                             | TS34.108 clause 6.1 (FDD)                                                                                                                                                                            |         |
| - CPICH Ec/N0                                               | Checked that this IE is absent                                                                                                                                                                       |         |
| - CPICH RSCP                                                | Checked that this IE is present                                                                                                                                                                      |         |
| - Pathloss                                                  | Checked that this IE is absent                                                                                                                                                                       |         |
| Measured results on RACH                                    | Checked that this IE is absent                                                                                                                                                                       |         |
| Additional measured results                                 | Checked that this IE is absent                                                                                                                                                                       |         |
| Event results                                               | Checked that this IE is absent                                                                                                                                                                       | ·       |
|                                                             |                                                                                                                                                                                                      | REL-4   |
| GSM OTD reference cell                                      | Checked that this IE is absent                                                                                                                                                                       | REL-4   |

### Contents of PAGING TYPE 1 message: TM (Speech in CS)

| Information Element           | Value/remark                                              |
|-------------------------------|-----------------------------------------------------------|
| Message Type                  |                                                           |
| Paging record list            |                                                           |
| - Paging record               |                                                           |
| - CHOICE Used paging identity | CN identity                                               |
| - Paging cause                | Terminating Conversational Call                           |
| - CN domain identity          | CS domain                                                 |
| - CHOICE UE identity          |                                                           |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |
|                               | USIM card                                                 |
| BCCH modification info        | Not Present                                               |

### Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

| Information Element           | Value/remark                                              |
|-------------------------------|-----------------------------------------------------------|
| Message Type                  |                                                           |
| Paging record list            |                                                           |
| - Paging record               |                                                           |
| - CHOICE Used paging identity | CN identity                                               |
| - Paging cause                | Terminating Streaming Call                                |
| - CN domain identity          | CS domain                                                 |
| - CHOICE UE identity          |                                                           |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |
|                               | USIM card                                                 |
| BCCH modification info        | Not Present                                               |

### Contents of PAGING TYPE 1 message: TM (Packet in PS)

| Information Element           | Value/remark                                  |
|-------------------------------|-----------------------------------------------|
| Message Type                  |                                               |
| Paging record list            |                                               |
| - Paging record               |                                               |
| - CHOICE Used paging identity | CN identity                                   |
| - Paging cause                | Terminating Interactive Call                  |
| - CN domain identity          | PS domain                                     |
| - CHOICE UE identity          |                                               |
| - P-TMSI                      | Use P-TMSI allocated by SS at initial attach. |
| BCCH modification info        | Not Present                                   |

### Contents of PAGING TYPE 1 message: TM (SMS in CS)

| Information Element                             | Value/remark                                              |
|-------------------------------------------------|-----------------------------------------------------------|
| Message Type                                    |                                                           |
| Paging record list                              |                                                           |
| - Paging record                                 |                                                           |
| <ul> <li>CHOICE Used paging identity</li> </ul> | CN identity                                               |
| - Paging cause                                  | Terminating Low Priority Signalling                       |
| <ul> <li>CN domain identity</li> </ul>          | CS domain                                                 |
| - CHOICE UE identity                            |                                                           |
| - IMSI (GSM-MAP)                                | Set to the same octet string as in the IMSI stored in the |
|                                                 | TEST USIM card                                            |
| BCCH modification info                          | Not Present                                               |

### Contents of PAGING TYPE 1 message: TM (SMS in PS)

| Information Element           | Value/remark                                              |
|-------------------------------|-----------------------------------------------------------|
| Message Type                  |                                                           |
| Paging record list            |                                                           |
| - Paging record               |                                                           |
| - CHOICE Used paging identity | CN identity                                               |
| - Paging cause                | Terminating Low Priority Signalling                       |
| - CN domain identity          | PS domain                                                 |
| - CHOICE UE identity          |                                                           |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |
|                               | TEST USIM card                                            |
| BCCH modification info        | Not Present                                               |

### Contents of PAGING TYPE 2 message: AM (Speech in CS)

| Information Element           | Value/remark                                                                                                                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                    |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info          |                                                                                                                                                                    |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Paging cause                  | Terminating Conversational Call                                                                                                                                    |
| CN domain identity            | CS domain                                                                                                                                                          |
| Paging record type identifier | Select the same type as in the IE "Initial UE Identity" in                                                                                                         |
|                               | RRC CONNECTION REQUEST" message.                                                                                                                                   |

### Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition          | Value/remark                             | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|---------|
| Message Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1, A2, A3,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A7, A8, A9,        |                                          |         |
| RRC transaction identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A10                | Arbitrarily selects an integer between 0 |         |
| RRC transaction identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | and 3                                    |         |
| Integrity check info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | and 5                                    |         |
| - message authentication code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | SS calculates the value of MAC-I for     |         |
| , and the second |                    | this message and writes to this IE. The  |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | first/ leftmost bit of the bit string    |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | contains the most significant bit of the |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | MAC-I.                                   |         |
| - RRC message sequence number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | SS provides the value of this IE, from   |         |
| Integrity protection made info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    | its internal counter. Not Present        |         |
| Integrity protection mode info Ciphering mode info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    | Not Present                              |         |
| Activation time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1, A2, A3         | (256+CFN-(CFN MOD 8 + 8))MOD 256         |         |
| Activation time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6,        | Not Present                              |         |
| 7.00.700.700.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A7, A8, A9,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A10                |                                          |         |
| New U-RNTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | Not Present                              |         |
| New C-RNTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3,        | Not Present                              |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A7, A8,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A9, A10            |                                          |         |
| New C-RNTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A5, A6             | '1010 1010 1010 1010'                    |         |
| New DSCH-RNTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1, A2, A3,        | Not Present                              |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A7, A8, A9,<br>A10 |                                          |         |
| New H-RNTI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3,        | Not Present                              | REL-5   |
| 110111111111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A4, A5, A6,        | THE PROCESS                              | 11220   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A7, A8, A9,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A10                |                                          |         |
| RRC State indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A1, A2, A3,<br>A4  | CELL_DCH                                 |         |
| RRC State indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A5, A6             | CELL_FACH                                |         |
| RRC State indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A7, A8             | URA_PCH                                  |         |
| RRC State indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A9, A10            | CELL_PCH                                 |         |
| UTRAN DRX cycle length coefficient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A1, A2, A3,        | Not Present                              |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6         |                                          |         |
| UTRAN DRX cycle length coefficient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A7, A8, A9,        | 3                                        |         |
| CN information info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A10                | Not Present                              |         |
| URA identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    | Not Present                              |         |
| Downlink counter synchronisation info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    | Not Present                              |         |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1, A2, A3,        |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5             |                                          |         |
| - UARFCN uplink (Nu)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | Reference to clause 5.1 Test             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | frequencies                              |         |
| - UARFCN downlink (Nd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    | Reference to clause 5.1 Test             |         |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A6, A7, A8,        | frequencies Not Present                  |         |
| i requerity illio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A9, A10            | INOLITESCIIL                             |         |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 73, 710            | 33dBm                                    |         |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A5, A6, A7,        | Not Present                              |         |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A8, A9,            |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A10                |                                          |         |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3,        | Uplink DPCH info                         |         |
| - Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A4                 |                                          |         |
| - DPCCH power control into                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | -80dB (i.e. ASN.1 IE value of -40)       |         |
| - PC Preamble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | 1 frame                                  |         |
| - SRB delay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | 7 frames                                 |         |
| - Power Control Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | i                  |                                          |         |
| - i ower control Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | Algorithm1                               |         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition   | Value/remark                                    | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------|---------|
| - $\Delta_{ACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Not Present                                     | REL-5   |
| - Δ <sub>NACK</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Not Present                                     | REL-5   |
| - Ack-Nack repetition factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Not Present                                     | REL-5   |
| - Scrambling code type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | Long                                            |         |
| - Scrambling code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | 0 (0 to 16777215)                               |         |
| - Number of DPDCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not Present(1)                                  |         |
| - spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Reference to TS34.108 clause 6.10               |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Parameter Set Reference to TS34.108 clause 6.10 |         |
| - Number of FBI bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Parameter Set Reference to TS34.108 clause 6.10 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter Set                                   |         |
| - Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Reference to TS34.108 clause 6.10 Parameter Set |         |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A1, A2, A3, | FDD                                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6, |                                                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A7, A8, A9, |                                                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A10         |                                                 |         |
| - Downlink PDSCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Not Present                                     |         |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1, A2, A3, | Not Present                                     | REL-5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6, |                                                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A7, A8, A9, |                                                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A10         |                                                 |         |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1, A2, A3  |                                                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A 1, AZ, A3 |                                                 |         |
| - Downlink DPCH info common for all RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                                 |         |
| - Timing indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Maintain                                        |         |
| - CFN-targetSFN frame offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Not Present                                     |         |
| - Downlink DPCH power control information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                 |         |
| - DPC mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 0 (single)                                      |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | FDD                                             |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | 0                                               |         |
| <ul> <li>DL rate matching restriction information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Not Present                                     |         |
| - Spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Reference to TS34.108 clause 6.10               |         |
| The same of the sa |             | Parameter Set                                   |         |
| - Fixed or Flexible Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Reference to TS34.108 clause 6.10               |         |
| TIXOG OF FIGABLE F COLUMN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | Parameter Set                                   |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Reference to TS34.108 clause 6.10               |         |
| - TFGI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                 |         |
| 0110105.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Parameter Set                                   |         |
| - CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Reference to TS34.108 clause 6.10               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter Set                                   |         |
| - DPCH compressed mode info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                     |         |
| - TX Diversity mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | None                                            |         |
| - SSDT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not Present                                     |         |
| - Default DPCH Offset Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                     |         |
| - MAC-hs reset indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | Not Present                                     | REL-5   |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4          |                                                 | -       |
| - Downlink DPCH info common for all RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ' ' '       |                                                 |         |
| - Timing indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Initialise                                      |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Not Present                                     |         |
| - CFN-targetSFN frame offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | INOLFIESCIIL                                    |         |
| - Downlink DPCH power control information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | O (cingle)                                      |         |
| - DPC mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 0 (single)                                      |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | FDD                                             |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | 0                                               |         |
| <ul> <li>DL rate matching restriction information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Not Present                                     |         |
| - Spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Reference to TS34.108 clause 6.10               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter Set                                   |         |
| - Fixed or Flexible Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Reference to TS34.108 clause 6.10               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter Set                                   |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Reference to TS34.108 clause 6.10               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter Set                                   |         |
| - CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Reference to TS34.108 clause 6.10               |         |
| OFFICIOL OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Parameter Set                                   |         |
| DDCH compressed made into                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                 |         |
| - DPCH compressed mode info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                     |         |
| - TX Diversity mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | None                                            |         |
| - SSDT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not Present                                     |         |
| - Default DPCH Offset Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Arbitrary set to value 0306688 by step          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | of 512                                          |         |

| Information Element                                         | Condition   | Value/remark                                | Version |
|-------------------------------------------------------------|-------------|---------------------------------------------|---------|
| - MAC-hs reset indicator                                    | Condition   | Not Present                                 | REL-5   |
| Downlink information common for all radio links             | A5, A6, A7, | Not Present                                 | INEL-5  |
| Downlink information common tor all radio links             | A8, A9,     | Not i resent                                |         |
|                                                             | A10         |                                             |         |
| Downlink information for each radio links                   | A1, A2,A3   |                                             |         |
| - Choice mode                                               | , ,         | FDD                                         |         |
| - Primary CPICH info                                        |             |                                             |         |
| - Primary scrambling code                                   |             | Ref. to the Default setting in TS34.108     |         |
|                                                             |             | clause 6.1 (FDD)                            |         |
| - PDSCH with SHO DCH info                                   |             | Not Present                                 |         |
| - PDSCH code mapping                                        |             | Not Present                                 |         |
| <ul> <li>Serving HS-DSCH radio link indicator</li> </ul>    |             | FALSE                                       | REL-5   |
| - Downlink DPCH info for each RL                            |             |                                             |         |
| - CHOICE mode                                               |             | FDD                                         |         |
| - Primary CPICH usage for channel                           |             | Primary CPICH may be used                   |         |
| estimation                                                  |             | Cat ta calles a Dafacill DDOLL Offs at      |         |
| - DPCH frame offset                                         |             | Set to value : Default DPCH Offset          |         |
|                                                             |             | Value (as currently stored in SS) mod 38400 |         |
| Secondary CDICH info                                        |             | Not Present                                 |         |
| - Secondary CPICH info - DL channelisation code             |             | NOCE TOSCIIC                                |         |
| - Secondary scrambling code                                 |             | 5                                           |         |
| - Spreading factor                                          |             | Reference to TS34.108 clause 6.10           |         |
| Oproceeding reactor                                         |             | Parameter Set                               |         |
| - Code number                                               |             | 0                                           |         |
| - Scrambling code change                                    |             | No change                                   |         |
| - TPC combination index                                     |             | 0                                           |         |
| - SSDT Cell Identity                                        |             | Not Present                                 |         |
| <ul> <li>Closed loop timing adjustment mode</li> </ul>      |             | Not Present                                 |         |
| - SCCPCH information for FACH                               |             | Not Present                                 |         |
| Downlink information for each radio links                   | A4          |                                             |         |
| - Choice mode                                               |             | FDD                                         |         |
| - Primary CPICH info                                        |             |                                             |         |
| - Primary scrambling code                                   |             | Ref. to the Default setting in TS34.108     |         |
| DDCCI I with CHO DCI I info                                 |             | clause 6.1 (FDD) Not Present                |         |
| - PDSCH with SHO DCH info                                   |             | Not Present                                 |         |
| PDSCH code mapping     Serving HS-DSCH radio link indicator |             | FALSE                                       | REL-5   |
| - Downlink DPCH info for each RL                            |             | FALSE                                       | KEL-5   |
| - CHOICE mode                                               |             | FDD                                         |         |
| - Primary CPICH usage for channel                           |             | Primary CPICH may be used                   |         |
| estimation                                                  |             |                                             |         |
| - DPCH frame offset                                         |             | Set to value : Default DPCH Offset          |         |
|                                                             |             | Value mod 38400                             |         |
| - Secondary CPICH info                                      |             | Not Present                                 |         |
| - DL channelisation code                                    |             |                                             |         |
| - Secondary scrambling code                                 |             | 5                                           |         |
| - Spreading factor                                          |             | Reference to TS34.108 clause 6.10           |         |
| Code must                                                   |             | Parameter Set                               |         |
| - Code number                                               |             | 0<br>No change                              |         |
| - Scrambling code change - TPC combination index            |             | No change                                   |         |
| - SSDT Cell Identity                                        |             | Not Present                                 |         |
| - Closed loop timing adjustment mode                        |             | Not Present<br>Not Present                  |         |
| - SCCPCH information for FACH                               |             | Not Present                                 |         |
| - Downlink information for each radio link                  | A5          |                                             | 1       |
| - Choice mode                                               |             | FDD                                         |         |
| - Primary CPICH info                                        |             |                                             |         |
| - Primary scrambling code                                   |             | Ref. to the Default setting in TS34.108     |         |
|                                                             |             | clause 6.1 (FDD)                            |         |
| - PDSCH with SHO DCH info                                   |             | Not Present                                 |         |
| - PDSCH code mapping                                        |             | Not Present                                 |         |
| - Serving HS-DSCH radio link indicator                      |             | FALSE                                       | REL-5   |
| - Downlink DPCH info for each RL                            |             | Not Present                                 |         |
| - SCCPCH Information for FACH                               |             | Not Present                                 |         |
| - Downlink information for each radio link                  | A6, A7, A8, | Not Present                                 |         |
|                                                             | A9, A10     |                                             |         |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for 'Packet to URA_PCH from CELL_FACH in PS'   |
| A8        | This IE need for 'Packet to URA_PCH from CELL_DCH in PS'    |
| A9        | This IE need for 'Packet to CELL_PCH from CELL_FACH in PS'  |
| A10       | This IE need for 'Packet to CELL_PCH from CELL_DCH in PS'   |

### Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronisation info                | Not present                                                                                                                                                                                          |

### Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identitifer   | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.                                                                              |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

Contents of RADIO BEARER SETUP message: AM or UM

| Information Element                                      | Condition                  | Value/remark                                                                  | Version        |
|----------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------|----------------|
| Message Type                                             | A1, A2, A3,                |                                                                               |                |
|                                                          | A4, A5, A6,<br>A7, A8      |                                                                               |                |
|                                                          | , A9                       |                                                                               | REL-5          |
| RRC transaction identifier                               | '                          | Arbitrarily selects an integer between 0                                      |                |
| RRC transaction identifier                               |                            | and 3                                                                         |                |
| Integrity check info                                     |                            |                                                                               |                |
| - message authentication code                            |                            | SS calculates the value of MAC-I for                                          |                |
|                                                          |                            | this message and writes to this IE. The first/ leftmost bit of the bit string |                |
|                                                          |                            | contains the most significant bit of the                                      |                |
|                                                          |                            | MAC-I.                                                                        |                |
| - RRC message sequence number                            |                            | SS provides the value of this IE, from its internal counter.                  |                |
| Integrity protection mode info                           |                            | Not Present                                                                   |                |
| Ciphering mode info                                      |                            | Not Present                                                                   |                |
| Activation time                                          | A1, A2, A3                 | (256+CFN-(CFN MOD 8 + 8))MOD 256                                              | DEL 6          |
| Activation time                                          | , A9<br>A4, A5, A6,        | Not Present                                                                   | REL-5          |
| Activation time                                          | A7, A8                     | Not Flesent                                                                   |                |
| New U-RNTI                                               | A1, A2, A3,                | Not Present                                                                   |                |
|                                                          | A4, A5, A6,                |                                                                               |                |
|                                                          | A7, A8<br>, A9             |                                                                               | REL-5          |
|                                                          |                            |                                                                               | INCE 5         |
| New C-RNTI                                               | A1, A2, A3,<br>A4, A7, A8  | Not Present                                                                   |                |
|                                                          | , A9                       |                                                                               | REL-5          |
| New C-RNTI                                               | A5, A6                     | '1010 1010 1010 1010'                                                         |                |
| New DSCH-RNTI                                            | A1, A2, A3,                | Not Present                                                                   |                |
|                                                          | A4, A5, A6,                |                                                                               |                |
|                                                          | A7, A8                     |                                                                               | DEL 6          |
|                                                          | , A9                       |                                                                               | REL-5          |
| New H-RNTI                                               | A1, A2, A3,                | Not Present                                                                   | REL-5          |
|                                                          | A4, A5, A6,<br>A7, A8      |                                                                               |                |
| New H-RNTI                                               | A9                         | '1010 1010 1010 1010'                                                         | REL-5          |
| RRC State indicator                                      | A1, A2, A3,                | CELL_DCH                                                                      |                |
|                                                          | A4, A7, A8                 |                                                                               | REL-5          |
|                                                          | , A9                       |                                                                               | REL-5          |
| RRC State indicator                                      | A5, A6                     | CELL_FACH                                                                     |                |
| UTRAN DRX cycle length coefficient                       | A1, A2, A3,<br>A4, A5, A6, | Not Present                                                                   |                |
|                                                          | A7, A8                     |                                                                               |                |
|                                                          | , A9                       |                                                                               | REL-5          |
| CN information info                                      |                            | Not Present                                                                   |                |
| URA identity                                             |                            | Not Present                                                                   |                |
| CHOICE specification mode  - Complete specification      |                            | Complete specification                                                        | REL-5<br>REL-5 |
| - Signalling RB information to setup                     |                            | Not Present                                                                   | KEL-0          |
| - RAB information for setup                              | A1, A7                     |                                                                               |                |
| - RAB info                                               |                            | 0000 0004 B                                                                   |                |
| - RAB identity                                           |                            | 0000 0001B The first/ leftmost bit of the bit string                          |                |
|                                                          |                            | contains the most significant bit of the                                      |                |
|                                                          |                            | RAB identity.                                                                 |                |
| - CN domain identity                                     |                            | CS domain Not Present                                                         |                |
| - NAS Synchronization Indicator - Re-establishment timer |                            | useT314                                                                       |                |
| - RB information to setup                                |                            |                                                                               |                |
| - RB identity                                            |                            | 10                                                                            |                |
| - PDCP info<br>- CHOICE RLC info type                    |                            | Not Present<br>RLC info                                                       |                |
| - CHOICE Uplink RLC mode                                 |                            | TM RLC                                                                        |                |
| <u> </u>                                                 | •                          | ·                                                                             | •              |

| Information Element                                                      | Condition | Value/remark                              | Version |
|--------------------------------------------------------------------------|-----------|-------------------------------------------|---------|
| - Transmission RLC discard                                               |           | Not Present                               |         |
| - Segmentation indication                                                |           | FALSE                                     |         |
| - CHOICE Downlink RLC mode                                               |           | TM RLC                                    |         |
| - Segmentation indication                                                |           | FALSE                                     |         |
| - RB mapping info                                                        |           | 17,232                                    |         |
| - Information for each multiplexing option                               |           |                                           |         |
| - RLC logical channel mapping indicator                                  |           | Not Present                               |         |
| - Number of uplink RLC logical channels                                  |           | 1                                         |         |
| - Uplink transport channel type                                          |           | DCH                                       |         |
| - UL Transport channel identity                                          |           | 1                                         |         |
| - Logical channel identity                                               |           | Not Present                               |         |
| - CHOICE RLC size list                                                   |           | Configured                                |         |
| - MAC logical channel priority                                           |           | 7                                         |         |
| - Downlink RLC logical channel info                                      |           |                                           |         |
| - Number of downlink RLC logical                                         |           | 1                                         |         |
| channels                                                                 |           |                                           |         |
| - Downlink transport channel type                                        |           | DCH                                       |         |
| - DL DCH Transport channel identity                                      |           | 6                                         |         |
| - DL DSCH Transport channel identity                                     |           | Not Present                               |         |
| - Logical channel identity                                               |           | Not Present                               |         |
| - RAB information for setup                                              | A2, A8    |                                           |         |
| - RAB info                                                               | ·         |                                           |         |
| - RAB identity                                                           |           | 0000 0001B                                |         |
| ·                                                                        |           | The first/ leftmost bit of the bit string |         |
|                                                                          |           | contains the most significant bit of the  |         |
|                                                                          |           | RAB identity.                             |         |
| - CN domain identity                                                     |           | CS domain                                 |         |
| <ul> <li>NAS Synchronization Indicator</li> </ul>                        |           | Not Present                               |         |
| - Re-establishment timer                                                 |           | useT314                                   |         |
| - RB information to setup                                                |           |                                           |         |
| - RB identity                                                            |           | 10                                        |         |
| - PDCP info                                                              |           | Not Present                               |         |
| - CHOICE RLC info type                                                   |           | RLC info                                  |         |
| - CHOICE Uplink RLC mode                                                 |           | TM RLC                                    |         |
| - Transmission RLC discard                                               |           | Not Present                               |         |
| - Segmentation indication                                                |           | FALSE                                     |         |
| - CHOICE Downlink RLC mode                                               |           | TM RLC                                    |         |
| - Segmentation indication                                                |           | FALSE                                     |         |
| - RB mapping info                                                        |           |                                           |         |
| <ul> <li>Information for each multiplexing option</li> </ul>             |           |                                           |         |
| - RLC logical channel mapping indicator                                  |           | Not Present                               |         |
| <ul> <li>Number of uplink RLC logical channels</li> </ul>                |           | 1                                         |         |
| <ul> <li>Uplink transport channel type</li> </ul>                        |           | DCH                                       |         |
| - UL Transport channel identity                                          |           | 1                                         |         |
| - Logical channel identity                                               |           | Not Present                               |         |
| - CHOICE RLC size list                                                   |           | Configured                                |         |
| - MAC logical channel priority                                           |           | 6                                         |         |
| - Downlink RLC logical channel info                                      |           | 4                                         |         |
| - Number of downlink RLC logical                                         |           | 1                                         |         |
| channels - Downlink transport channel type                               |           | DCH                                       |         |
| - Downlink transport channel type - DL DCH Transport channel identity    |           | DCH<br>  6                                |         |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity |           | Not Present                               |         |
| - Logical channel identity                                               |           | Not Present                               |         |
| - RB identity                                                            |           | 11                                        |         |
| - RB identity - PDCP info                                                |           | 11<br>  Not Present                       |         |
| - CHOICE RLC info type                                                   |           | RLC info                                  |         |
| - CHOICE Uplink RLC mode                                                 |           | TM RLC                                    |         |
| - Transmission RLC discard                                               |           | Not Present                               |         |
| - Segmentation indication                                                |           | FALSE                                     |         |
| - CHOICE Downlink RLC mode                                               |           | TM RLC                                    |         |
| - Segmentation indication                                                |           | FALSE                                     |         |
| - RB mapping info                                                        |           | _                                         |         |
| - Information for each multiplexing option                               |           |                                           |         |
| - RLC logical channel mapping indicator                                  |           | Not Present                               |         |
| - Number of uplink RLC logical channels                                  |           | 1                                         |         |
| - Uplink transport channel type                                          |           | DCH                                       |         |

| U. Transport channel identity - Logical channel priority - Downlink RLC logical channel priority - Downlink RLC logical channel priority - Downlink transport channel with the channel priority - Downlink transport channel with the channel priority - DL DSCH Transport channel identity - Logical channel loentity - RB identity - PDCP into - CHOICE RLC into type - CHOICE Qulink RLC mode - Transmission RLC discard - CHOICE Downlink RLC mode - Transmission RLC discard - RB mapping into - CHOICE Downlink RLC mode - Transmission RLC discard - RB mapping into - Ulpink RLC sharnel priority - Logical channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channel identity - RB information to setup - RB information to setup - RB inf | Information Element                            | Condition | Value/remark                              | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|-------------------------------------------|---------|
| - CHÖICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channel info - Number of downlink RLC logical channel info - Du DCH Transport channel identity - Logical channel identity - Report Policy - CHÖICE RLC info type - CHÖICE SUMMER RECOMENTATION OF THE RLC Info - Transmission RLC discard - Segmentation indication - RR mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHÖICE RLC size list diority - Dewnlink transport channel identity - Du DSCH Transport channel identity - Dewnlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel identity - DL DSCH Transport channel identity - RB information to setup - RB identity - RB information to setup - RB identity - RB information identity - RB informatio |                                                |           |                                           |         |
| - MAC logical channel priority - Downlink RLC logical channels - Downlink RLC solical channel stype - DL DCH Transport channel identity - LOGICAL channel dentity - LOGICE Lot into type - CHOICE LIP link RLC mode - Transmission RLC discard - CHOICE LIP link RLC mode - Transmission RLC discard - CHOICE Downlink RLC mode - Transmission RLC discard - RB mapping info - Information for each multiplexing option - RLC logical channel identity - DL DCH Transport channel identity - DC SCH Transport channel identity - DC  |                                                |           |                                           |         |
| - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel lype - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - PDCP info - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - RLC logical channel identity - Logical channel midication - RLC logical channel midication - RLC logical channel midication - RLC logical channel mapping indicator - Publink transport channel identity - Lugical channel identity - Lugical channel identity - Logical channel identity - Downlink RLC logical channel identity - Downlink RLC logical channel identity - Downlink RLC logical channel identity - DL DSCH Transport channel identity - DR Dick Plansport channel identity - DR Dick Plansport channel identity - DR Dick Plansport channel identity - DR DSCH Transport channel identity - PDC Proposed Plansport channel identity - RB information for setup - RB information for setup - RB information to setup - RB i |                                                |           | -                                         |         |
| - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDC P info - CHOICE RLC info type - CHOICE RLC billink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel apping indicator - Number of ulplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel identity - Downlink RLC logical channel indicator - Ramping info - Downlink transport channel with transport channel identity - DL DSCH Transport channel with transport channel identity - DL DSCH Transport channel identity - DL DSCH Transport channel identity - DR Segment Channel identity - CR AB identity - DR Segment Cannel i |                                                |           | б                                         |         |
| channels Du DCH Transport channel lype DL DSCM Transport channel identity Logical channel identity PDCP Info CHOICE RLC info type CHOICE Uplink RLC mode Transmission RLC discard Segmentation indication CHOICE Dwallink RLC mode Segmentation indication RLC logical channel appring info Information for each multiplexing option RLC logical channel mapping info Information for each multiplexing option RLC logical channel mapping info Information for each multiplexing option RLC logical channel mapping info Information for sexhomal (approximation) RLC logical channel identity CHOICE RLC size list MAC logical channel info Number of downlink RLC logical channels Downlink RLC logical channel info Number of workink RLC logical channel info Nor Present Nor Pr |                                                |           | 4                                         |         |
| - Downlink transport channel identity - DL DSCH Transport channel identity - Logical channel identity - PDCP Info - CHOICE RLC Info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RLC logical channel mapping indicator - RLC logical channel identity - Downlink RLC logical channels - Duth transport channel identity - Downlink RLC logical channel identity - Duth Transport channel identity - Logical channel identity - CHOICE RLC size list - ARB information for setup - RAB information for setup - RB identity - CHOICE RLC info type - CHOICE Spul diseard mode - Header compression information - CHOICE Spul diseard mode - Header compression information - CHOICE Spul diseard mode - MAX_DAT - Transmission RLC diseard - CHOICE Spul diseard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_ prohibit - Timer_poll_ Poll - Poll_ Poll_ Poll - Last ransmission PDU poll                                                                                                                                                                                                                                                                                                                                                           |                                                |           | 1                                         |         |
| D. DCH Transport channel identity - L. Logical channel identity - R. Bi identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel entity - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink RLS logical channel info - Number of downlink RLC logical channels - Downlink RLS logical channel info - Number of downlink RLC logical channels - Downlink RLS logical channel info - Number of downlink RLS logical channels - Downlink RLS logical channels - Downlink RLS logical channels - Downlink ransport channel type - DL DCH Transport channel identity - L. Ogical channel identity - RAB info - RA |                                                |           | DCH                                       |         |
| - DL DSCH Transport channel identity - Logical channel identity - PDCP Info - CHOICE RLC Info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RR mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel priority - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Dewnlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel identity - De Deby Transport channel identity - Deby RL Transport channel identity - Deby RL Transport channel identity - Deby RL Transport channel identity - CRAB information for setup - RB information for setup - RB identity - CN domain identity - NAS synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - RB identity - PDCP Info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE SDU discard mode - MAX_DAT - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll - Poll_PDU - Poll_BDU - Poll_PDU - Poll_SDU - Last transmission PDU poll                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |           | _                                         |         |
| - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE SUblink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel identity - Logical channel identity - Logical channel identity - Downlink RLC logical channel info - Number of downlink RLC logical channel info - Number of downlink RLC logical channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - DL SSCH Transport channel identity - DL SSCH Transport channel identity - Logical channel identity - RAB information for setup  - RAB information for setup  - RB identity - PDCP linfo - RaB information to setup - RB identity - PDCP ploth - RB information to setup - RB identity - PDCP linfo - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX, DAT - Transmission window size - Timer, RST - Polling info - Timer, poll prohibit - Timer  |                                                |           |                                           |         |
| - RB identity - PDCP Info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - Downlink RLC logical channel info - Number of downlink RLC logical channels - Dut De Transport channel type - DL DCH Transport channel identity - DU DISCH Transp |                                                |           |                                           |         |
| - PDCP info C-HOICE RLC info type C-HOICE Segmentation indication Transmission RLC discard Segmentation indication C-HOICE Downlink RLC mode Segmentation indication RB mapping info Information for each multiplexing option RB information RLC logical channel identity Downlink RLC logical channel identity Dobe DL DSCH Transport channel identity DCH SUBJOIC Admain identity RB information for setup RB information for setup RB information to setup RB information RB informat |                                                |           | 12                                        |         |
| - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical - Downlink RLC logical channel info - Number of downlink RLC logical - Downlink RLC logical channel info - Number of downlink RLC logical - Downlink RLC logical channel info - Number of downlink RLC logical - Downlink Intensport channel dentity - D LD DCH Transport channel identity - D LD SCH Transport channel identity - D LD SCH Transport channel identity - NAB infor - RAB info - RAB info - RAB info - RAB infor ation to setup - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE SDI discard mode - MAX_DAT - Transmission window size - Timer_ RST - Max_RST - Polling info - Foll_ PDU - Poll_ SDU - Last transmission PDU poll - TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |           | Not Present                               |         |
| - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - Dewnlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel ipfor - DL DCH Transport channel identity - Logical channel identity - RAB information for setup - RB information for setup - RB information to setup - RB dentity - RR B information to setup - RB information setup - RB information to setup - RB information setup -  | - CHOICE RLC info type                         |           | RLC info                                  |         |
| - Segmentation indication - C-HOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - C-HOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical - Channels - Downlink RLC logical channel info - Number of downlink RLC logical - Channels - Downlink transport channel identity - L DSCH Transport channel identity - L Logical channel identity - RB information for setup - RB information for setup - RB information for setup - RB information to setup - RB information for                  |                                                |           | TM RLC                                    |         |
| - CHÖICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel tidentity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel information for setup - Number of downlink RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - DC SCH Transport channel identity - CN domain identity - RAB information for setup - RAB information for setup - RB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE RLC info type - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer, RST - Polling info - Timer, poll - Poll_ PDU - Poll_ SDU - Last transmission PDU poll - Not Present - TRUE  TM RLC FALSE  Not Present - Configured - 6 - DCH - CON domain ideator - RAB identity - A3, A4, A5, A6 - A6 - MAT THOM TRANSMISSION INTERPRETATION INTERPR |                                                |           |                                           |         |
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| - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  FALSE Not present Absent Not present RLC info AM RLC  No Discard 15 128 500 4  - 200 - 200 - 200 - Not Present 1 TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |           | u561919                                   |         |
| - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - POll_PDU - Poll_SDU - Last transmission PDU poll  FALSE Not present Not present Not present - No Discard - No Discard - No Discard - No Discard - Value -  |                                                |           | 20                                        |         |
| - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - POll_PDU - Poll_SDU - Last transmission PDU poll  FALSE Not present Absent Not present - Absent |                                                |           | 20                                        |         |
| - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  Not present Absent Not present RLC info AM RLC  No Discard - No Discard - 128 - 500 - 4 - 200 - 128 - 200 - 200 - 200 - Not Present - 120 - TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | . =                                            |           | FALSE                                     |         |
| - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  Absent Not present RLC info AM RLC  - No Discard - No Discard - No Discard - Value Amale  |                                                |           |                                           |         |
| - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  RLC info AM RLC  RLC info AM RLC  No Discard  15  128  128  128  200  100  200  Not Present 1  TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - PDCP PDU header                              |           |                                           |         |
| - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  AM RLC  No Discard 15 128 128 128 128 1200  Not Present 1 TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |           |                                           |         |
| - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  No Discard No Discard  4  Vo Discard  15  128  128  128  128  1200  100  100  10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |           |                                           |         |
| - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  No Discard 15  128  500  4  200  Volume 128  No Discard 128  128  128  500  Volume 128  No Discard 15  128  128  500  Volume 128  No Discard 15  128  128  No Discard 15  128  128  No Discard 15  128  No Discard 15  128  No Discard 15  128  128  No Discard 15  No Discard 15  128  128  No Discard 15  17  17  17  17  17  17  17  17  17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |           | AM RLC                                    |         |
| - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  15 128 128 128 500 4  200  Not Present 1 TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |           | No Discoud                                |         |
| - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  128 500 - 200 - 200 - Not Present 1 TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |                                           |         |
| - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  500 4  200  200  Not Present 1  TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |           |                                           |         |
| - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll  4  200  200  Not Present 1  TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |           |                                           |         |
| - Polling info - Timer_poll_prohibit - Timer_poll - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |           |                                           |         |
| - Timer_poll_prohibit 200 - Timer_poll 200 - Poll_PDU 200 - Poll_SDU 1 - Last transmission PDU poll TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |           | '                                         |         |
| - Timer_poll 200 - Poll_PDU Not Present - Poll_SDU 1 - Last transmission PDU poll TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |           | 200                                       |         |
| - Poll_PDU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |           |                                           |         |
| - Poll_SDU 1 TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |           |                                           |         |
| - Last transmission PDU poll TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |           |                                           |         |
| - Last retransmission PDU poll TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>Last transmission PDU poll</li> </ul> |           |                                           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - Last retransmission PDU poll                 |           | TRUE                                      |         |

| Information Element                                                      | Condition | Value/remark                              | Version |
|--------------------------------------------------------------------------|-----------|-------------------------------------------|---------|
| - Poll_Windows                                                           |           | 99                                        |         |
| - Timer_poll_periodic                                                    |           | Not Present                               |         |
| - CHOICE Downlink RLC mode                                               |           | AM RLC                                    |         |
| - In-sequence delivery                                                   |           | TRUE                                      |         |
| - Receiving window size                                                  |           | 128                                       |         |
| - Downlink RLC status info                                               |           |                                           |         |
| - Timer_status_prohibit                                                  |           | 200                                       |         |
| - Timer_EPC                                                              |           | Not Present                               |         |
| - Missing PDU indicator<br>- Timer_STATUS_periodic                       |           | TRUE Not Present                          |         |
| - RB mapping info                                                        |           | Not Flesent                               |         |
| - Information for each multiplexing option                               |           | 2 RBMuxOptions                            |         |
| - RLC logical channel mapping indicator                                  |           | Not Present                               |         |
| - Number of uplink RLC logical channels                                  |           | 1                                         |         |
| - Uplink transport channel type                                          |           | DCH                                       |         |
| - UL Transport channel identity                                          |           | 1                                         |         |
| - Logical channel identity                                               |           | Not Present                               |         |
| - CHOICE RLC size list                                                   |           | Configured                                |         |
| - MAC logical channel priority                                           |           | 8                                         |         |
| <ul> <li>Downlink RLC logical channel info</li> </ul>                    |           |                                           |         |
| - Number of downlink RLC logical                                         |           | 1                                         |         |
| channels                                                                 |           | DOLL                                      |         |
| - Downlink transport channel type                                        |           | DCH                                       |         |
| DL DCH Transport channel identity     DL DSCH Transport channel identity |           | 6<br>Not Present                          |         |
| - DE DSCH Transport charmer identity - Logical channel identity          |           | Not Present                               |         |
| - RLC logical channel mapping indicator                                  |           | Not Present                               |         |
| - Number of uplink RLC logical channels                                  |           | 1                                         |         |
| - Uplink transport channel type                                          |           | RACH                                      |         |
| - UL Transport channel identity                                          |           | Not Present                               |         |
| - Logical channel identity                                               |           | 7                                         |         |
| - CHOICE RLC size list                                                   |           | Explicit list                             |         |
| - RLC size index                                                         |           | Reference to TS34.108 clause 6            |         |
|                                                                          |           | Parameter Set                             |         |
| - MAC logical channel priority                                           |           | 8                                         |         |
| - Downlink RLC logical channel info                                      |           |                                           |         |
| - Number of downlink RLC logical                                         |           | 1                                         |         |
| channels - Downlink transport channel type                               |           | FACH                                      |         |
| - DCH Transport channel identity                                         |           | Not Present                               |         |
| - DL DSCH Transport channel identity                                     |           | Not Present                               |         |
| - Logical channel identity                                               |           | 7                                         |         |
| - RAB information for setup                                              | A9        | •                                         | REL-5   |
| - RAB info                                                               |           | (high-speed AM DTCH for PS domain)        |         |
| - RAB identity                                                           |           | 0000 0110B                                |         |
| ·                                                                        |           | The first/ leftmost bit of the bit string |         |
|                                                                          |           | contains the most significant bit of the  |         |
|                                                                          |           | RAB identity.                             |         |
| - CN domain identity                                                     |           | PS domain                                 |         |
| - NAS Synchronization Indicator                                          |           | Not Present                               |         |
| - Re-establishment timer                                                 |           | useT315                                   |         |
| - RB information to setup - RB identity                                  |           | 23                                        |         |
| - RB identity - PDCP info                                                |           | 20                                        |         |
| - Support for lossless SRNS relocation                                   |           | FALSE                                     |         |
| - Max PDCP SN window size                                                |           | Not present                               |         |
| - PDCP PDU header                                                        |           | Absent                                    |         |
| - Header compression information                                         |           | Not present                               |         |
| - CHOICE RLC info type                                                   |           | RLC info                                  |         |
| - CHOICE Uplink RLC mode                                                 |           | AM RLC                                    |         |
| - Transmission RLC discard                                               |           |                                           |         |
| - CHOICE SDU discard mode                                                |           | No Discard                                |         |
| - MAX_DAT                                                                |           | 15                                        |         |
| - Transmission window size                                               |           | 128<br>  500                              |         |
| - Timer_RST<br>- Max_RST                                                 |           | 4                                         |         |
| - Ividx_RST - Polling info                                               |           |                                           |         |
| 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3                                  | I         | I                                         | ı       |

| Timer_poll prohibit Timer_poll Poll_SDU Last transmission PDU poll Poll_SDU Last transmission PDU poll Poll_SDU Last transmission PDU poll Poll_Windows Timer_poll_periodic C-KHOICE Downink RLC mode In-sequence delivery Receiving window size Timer_status prohibit Timer EPC Timer_STATUS periodic Poll_Missing PDU indicator Timer_STATUS periodic RB mapping info Information for each multiplexing option RLC logical channel mapping indicator Number of uplink RLC logical channels Uplink transport channel (bentity Downlink RLC logical channel info DL IS-DSCH MAC altow identity Lugical channel identity DL IS-DSCH MAC altow identity Lugical channel identity Logical channel identity Downlink transport channel identity Lugical channel identity Downlink RLC logical channels Uplink transport channel identity Downlink RLC logical channels Uplink transport channel identity Downlink RLC logical channels Uplink transport channel identity DL DSCH Transport channel identity DL SCH Transport channel identity DL DSCH Transport channel identity DL  | Information Element                                    | Condition  | Value/remark   | Version         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------|----------------|-----------------|
| - Timer_poll Poll PDU Poll SDU Poll SDU Poll SDU - Last transmission PDU poll - Last retransmission PDU poll - Last retransmission PDU poll Poll Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status into - Timer_status_prohibit - Timer_prohibit - Timer_status_prohibit - |                                                        |            |                | . 3. 3. 3. 3. 1 |
| - Poll_SDU - Poll_SDU - Last transmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status into - Timer_Elect - Downlink RLC status into - Timer_Elect - Problet - Missing PDU indicator - Timer STATUS periodic - RR mapping info - Information for each multiplexing option - Information for seach multiplexing option - I |                                                        |            |                |                 |
| - Poll SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_EPC - Missing PDU Indicator - Timer_STADS_periodic - Historican provided in the provi |                                                        |            |                |                 |
| - Last retransmission PDU poll - Poll. Windows - Timer, poll periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer, EPC - Missing PDU Indicator - Timer, STATUS, periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - CHOICE RLC size list - Downlink RLC logical channels - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink RLC logical channel information for each multiplexing option - RLC logical channel information - Number of downlink RLC logical channels - Downlink RLC logical channel information - Number of downlink RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of downlink RLC logical channels - Downlink transport channel identity - Logical  |                                                        |            |                |                 |
| - Poll, Windows - Timer poll periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status into - Timer, status, prohibit - Timer, EPC - Missing PDU indicator - Timer, STATUS, periodic - RB mapping into - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel method to the status of the | - Last transmission PDU poll                           |            | TRUE           |                 |
| - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Receiving window size - Possing PDU indicator - Timer_STATUS_periodic - Re mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel from the state of the s | - Last retransmission PDU poll                         |            | TRUE           |                 |
| - C-HOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_Status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel ridentity - CHOICE RLC size list - MAC logical channel priority - Du DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL DCH Transport channel identity - DL The Speck MAC of low identity - DL The Speck MAC of low identity - DL DCH Transport channel identity - DL DCH CS Ize list - MAC logical channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink RLC logical channel info - Number of uplink RLC logical channels - Downlink RLC logical channel info - Number of uplink RLC logical channels - Downlink RLC logical channel info - Number of uplink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Holice RLC size list - RLC size index - RLC logical channel priority - Downlink RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Downlink RLC logical channels - RLC logical channel identity - Downlink RLC logical channels - RLC logical channel identity - Logical channel identity - Logical channel id | - Poll_Windows                                         |            | 99             |                 |
| In-sequence delivery   Receiving window size   Receiving window size   Downlink RLC status into   Timer_EPC   Timer_EPC   Missing PDU indicator   Timer_EPC   Missing PDU indicator   Timer_STATUS_periodic   TRUE   Not Present   TRUE   |                                                        |            | Not Present    |                 |
| Receiving window size Downlink RLC status info Timer, Status prohibit Timer, EPC Missing PDU indicator Timer STATUS periodic RB mapping info Information for each multiplexing option RLC logical channel mapping indicator Number of uplink RLC logical channels Uplink transport channel identity CHOICE RLC size list Downlink transport channel info Number of downlink RLC logical channels Downlink transport channel info Number of uplink RLC logical channels Uplink transport channel identity Logical channel mapping indicator Number of uplink RLC logical channels Uplink transport channel identity Logical channel mapping indicator Number of uplink RLC logical channels Uplink transport channel identity CHOICE RLC size list MAC logical channel mapping indicator Number of uplink RLC logical channels Downlink transport channel identity Logical channel mapping indicator Number of uplink RLC logical channels Downlink RLC logical channel info Number of uplink RLC logical channel info Number of Logical channel info Number of uplink RLC logical channel info Number of Logical channel info |                                                        |            | I              |                 |
| - Downlink RLC status into - Timer_Status_prohibit - RLC logical channel spaning indicator - RLC logical channel mapping indicator - RLC logical channel spaning indicator - RLC logical channel identity - Logical channel identity - Logical channel identity - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - Logical channel identity - Downlink RLC logical channels - Downlink transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Downlink transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - RLC logical channel identity - CHOICE RLC size list - RLC size index - RLC logical channel identity - CHOICE RLC size list - RLC size index - RLC logical channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - RLC logical channel identity - Logical channel ide |                                                        |            |                |                 |
| - Timer, status, prohibit - Timer EPC - Missing PDU indicator - Timer, STATUS, periodic - RB mapping into - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel formity - Downlink RLC logical channel info - Number of bownlink RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Downlink RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channels - Uplink transport channel identity - Logical channel priority - Downlink RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel identity - Logical channel i |                                                        |            | 768            |                 |
| - Timer, EPC - Missing PDU indicator - Timer, STATUS, periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Uplink transport channel identity - Logical channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel priority - Downlink RLC logical channel identity - Downlink RLC logical channel identity - DL DCH Transport channel identity - Logical channel identity - Logi |                                                        |            | 400            |                 |
| - Missing PDU indicator - Timer, STATUS, periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel stope - Downlink transport channel identity - DL DSCH Transport channel identity - DL DSCH SCH MAC-d flow identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - LOGIC RLC size list - MC logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel identity - Downlink RLC logical channels - Uplink transport channel identity - Downlink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channel identity - Downlink RLC logical channel identity - DL DSCH Transport channel identity - Logical channel identity - HCOICE RLC size list - MCOICE RLC size list - MCOICE RLC size list - MCOICE RLC size list - RLC size index - MAC logical channel identity - Logical channel identity - Ownlink RLC logical channels - Logical channel identity - Downlink RLC logical channels - Logical channel identity - Downlink RLC logical channels - Logical channel identity - Downlink RLC logical channels - Logical channel identity - Downlink RLC logical channels - Logical channel identity - Downlink RLC logical channels - Logical channel identity - Downlink RLC logical channels - Logical channel identity - Downlink RLC |                                                        |            |                |                 |
| - Timer STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel kidentity - Logical channel identity - CHOICE RLC size list - MAC logical channel info - Number of downlink RLC logical channel identity - Downlink RLC logical channel info - Number of downlink RLC logical channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - LOGICE RLC size list - MAC logical channel priority - Downlink RLC logical channel identity - LOGICE RLC size list - MAC logical channel priority - Downlink RLC logical channel identity - DL DCH Transport channel identity - LOgical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - LOgical channel identity - L |                                                        |            |                |                 |
| - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel info - Number of downlink RLC logical - Channels - Downlink transport channel identity - DL DSCH Transport channel identity - Logical channel identity - DL DSCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical - Channels - Downlink transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RC logical channel identity - Logical channel identity - Logical channel identity - DL DSCH Transport channel identity - Logical channel identity - DL DSCH Transport channe | - Timer STATUS periodic                                |            | _              |                 |
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| - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - DL DSCH Transport channel identity - Logical channel identity - RB information to be affected  Not Present  1 RACH Not Present  7 FACH Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |            | -              |                 |
| - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB information to be affected  1 RACH Not Present  7 Explicit list Reference to TS34.108 clause 6 Parameter Set  8  1  RACH Not Present  7  FACH Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |            |                |                 |
| - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels  - DU DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB information to be affected  - UL Transport channel identity - CHOICE RLC size list - Explicit list - Reference to TS34.108 clause 6 - Parameter Set  8  - Parameter Set - MAC logical channel info - Number of downlink RLC logical - The Not Present - Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |            |                |                 |
| - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB information to be affected  Not Present  Reference to TS34.108 clause 6 Parameter Set  8  FACH Not Present  7  RACH Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |            | I -            |                 |
| - Logical channel identity - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels  - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  7 Explicit list Reference to TS34.108 clause 6 Parameter Set  8  1  1  FACH Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |            | _              |                 |
| - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels  - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  Explicit list Reference to TS34.108 clause 6 Parameter Set  8  FACH Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |            |                |                 |
| - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels  - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  Reference to TS34.108 clause 6 Parameter Set  8  FACH  Not Present  Not Present  7  Not Present  A1, A2, A3, A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |            | ·              |                 |
| - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  Parameter Set 8  FACH Not Present Not Present 7  Not Present 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |            |                |                 |
| - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  - Downlink RLC logical - 1 - Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |            |                |                 |
| - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  1 FACH Not Present Not Present 7 Not Present 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |            | 8              |                 |
| channels  - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  A1, A2, A3, A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |            |                |                 |
| - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  A1, A2, A3, A4, A5, A6,  A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |            | 1              |                 |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  A1, A2, A3, A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |            | 54011          |                 |
| - DL DSCH Transport channel identity - Logical channel identity  RB information to be affected  A1, A2, A3, A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |            |                |                 |
| - Logical channel identity 7  RB information to be affected A1, A2, A3, A4, A5, A6, A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |            |                |                 |
| RB information to be affected A1, A2, A3, Not Present A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |            |                |                 |
| A4, A5, A6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        | A1, A2, A3 |                |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |            |                |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |            |                |                 |

| Information Element                                                                   | Condition                                    | Value/remark                                                                                                                                     | Version |
|---------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                                                                       | , A9                                         |                                                                                                                                                  | REL-5   |
| Downlink counter synchronisation info                                                 | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8<br>, A9 | Not Present                                                                                                                                      | REL-5   |
| UL Transport channel information for all transport channels                           | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8         |                                                                                                                                                  |         |
|                                                                                       | , A9                                         |                                                                                                                                                  | REL-5   |
| - PRACH TFCS                                                                          |                                              | Not Present                                                                                                                                      |         |
| - CHOICE mode                                                                         |                                              | FDD                                                                                                                                              |         |
| - TFC subset<br>- UL DCH TFCS                                                         |                                              | Not Present                                                                                                                                      |         |
| - OLDCH TPCS - CHOICE TFCI signalling                                                 |                                              | Normal                                                                                                                                           |         |
| - TFCI Field 1 information                                                            |                                              |                                                                                                                                                  |         |
| - CHOICE TFCS representation                                                          |                                              | Complete reconfiguration                                                                                                                         |         |
| - TFCS complete reconfigure information                                               |                                              |                                                                                                                                                  |         |
| - CHOICE CTFC Size                                                                    |                                              | Number of bits used must be enough to                                                                                                            |         |
| - CTFC information                                                                    |                                              | cover all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause |         |
| - CTFC                                                                                |                                              | 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4                                                                                     |         |
| Daway offert information                                                              |                                              | Parameter Set                                                                                                                                    |         |
| - Power offset information - CHOICE Gain Factors                                      |                                              | Computed Gain Factors(The last TFC                                                                                                               |         |
| STIGIGE GAILL AGGIG                                                                   |                                              | is set to Signalled Gain Factors)                                                                                                                |         |
| - Gain factor βc                                                                      |                                              | 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to                                                     |         |
| - Gain factor βd                                                                      |                                              | Computed Gain Factors) 15 (Not Present if the CHOICE Gain Factors is set to Computed Gain                                                        |         |
| - Reference TFC ID                                                                    |                                              | Factors)                                                                                                                                         |         |
| - CHOICE mode                                                                         |                                              | FDD                                                                                                                                              |         |
| - Power offset P p-m                                                                  |                                              | Not Present                                                                                                                                      |         |
| Deleted UL TrCH information                                                           | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8         | Not Present                                                                                                                                      |         |
|                                                                                       | , A9                                         |                                                                                                                                                  | REL-5   |
| Added or Reconfigured UL TrCH information                                             | A1, A3 A4,                                   | 1 DCH added, 1 DCH reconfigured                                                                                                                  |         |
|                                                                                       | A5, A6, A7<br>, A9                           |                                                                                                                                                  | REL-5   |
| - Unlink transport channel type                                                       | , , , , ,                                    | DCH                                                                                                                                              |         |
| <ul><li>Uplink transport channel type</li><li>UL Transport channel identity</li></ul> |                                              | 1 DCH                                                                                                                                            |         |
| - TFS                                                                                 |                                              | Dedicated transcript street                                                                                                                      |         |
| - CHOICE Transport channel type     - Dynamic Transport format information            |                                              | Dedicated transport channels                                                                                                                     |         |
| - RLC Size                                                                            |                                              | Reference to TS34.108 clause 6.10                                                                                                                |         |
| Number of TDs and TTLL                                                                |                                              | Parameter Set                                                                                                                                    |         |
| - Number of TBs and TTI List - Transmission Time Interval                             |                                              | (This IE is repeated for TFI number.) Not Present                                                                                                |         |
| - Number of Transport blocks                                                          |                                              | Reference to TS34.108 clause 6.10                                                                                                                |         |
| ·                                                                                     |                                              | Parameter Set                                                                                                                                    |         |
| - CHOICE Logical Channel list - Semi-static Transport Format information              |                                              | All                                                                                                                                              |         |
| - Transmission time interval                                                          |                                              | Reference to TS34.108 clause 6.10                                                                                                                |         |
| _ , ,                                                                                 |                                              | Parameter Set                                                                                                                                    |         |
| - Type of channel coding                                                              |                                              | Reference to TS34.108 clause 6.10                                                                                                                |         |

| Information Element                                                        | Condition | Value/remark                                             | Version |
|----------------------------------------------------------------------------|-----------|----------------------------------------------------------|---------|
| On the support                                                             |           | Parameter Set                                            |         |
| - Coding Rate                                                              |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Rate matching attribute                                                  |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - CRC size                                                                 |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Uplink transport channel type                                            |           | DCH                                                      |         |
| - UL Transport channel identity - TFS                                      |           | 5                                                        |         |
| - CHOICE Transport channel type     - Dynamic Transport format information |           | Dedicated transport channels                             |         |
| - RLC Size                                                                 |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Number of TBs and TTI List                                               |           | (This IE is repeated for TFI number.)                    |         |
| - Transmission Time Interval                                               |           | Not Present                                              |         |
| - Number of Transport blocks                                               |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - CHOICE Logical Channel list                                              |           | All                                                      |         |
| - Semi-static Transport Format information - Transmission time interval    |           | Reference to TS34.108 clause 6.10                        |         |
|                                                                            |           | Parameter Set                                            |         |
| - Type of channel coding                                                   |           | Reference to TS34.108 clause 6.10                        |         |
| - Coding Rate                                                              |           | Parameter Set Reference to TS34.108 clause 6.10          |         |
| - Coding Nate                                                              |           | Parameter Set                                            |         |
| - Rate matching attribute                                                  |           | Reference to TS34.108 clause 6.10                        |         |
| 000 -:                                                                     |           | Parameter Set                                            |         |
| - CRC size                                                                 |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| Added or Reconfigured UL TrCH information                                  | A2, A8    | 4 TrCHs(DCH for DCCH and 3DCHs                           |         |
|                                                                            |           | for DTCH)                                                |         |
| Uplink transport channel type     UL Transport channel identity            |           | DCH<br>5                                                 |         |
| - TFS - CHOICE Transport channel type                                      |           | Dedicated transport channels                             |         |
| - Dynamic Transport format information                                     |           | Bediedted transport charmers                             |         |
| - RLC Size                                                                 |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Number of TBs and TTI List                                               |           | (This IE is repeated for TFI number.)                    |         |
| - Transmission Time Interval                                               |           | Not Present                                              |         |
| - Number of Transport blocks                                               |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - CHOICE Logical Channel list                                              |           | All                                                      |         |
| <ul> <li>Semi-static Transport Format information</li> </ul>               |           |                                                          |         |
| - Transmission time interval                                               |           | Reference to TS34.108 clause 6.10                        |         |
| - Type of channel coding                                                   |           | Parameter Set Reference to TS34.108 clause 6.10          |         |
| . yps of stands oballig                                                    |           | Parameter Set                                            |         |
| - Coding Rate                                                              |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Rate matching attribute                                                  |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - CRC size                                                                 |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Uplink transport channel type - UL Transport channel identity            |           | DCH<br>1                                                 |         |
| - TFS                                                                      |           | Dedicated transport channels                             |         |
| - CHOICE Transport channel type     - Dynamic Transport format information |           | Dedicated transport channels                             |         |
| - RLC Size                                                                 |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Number of TBs and TTI List                                               |           | Parameter Set<br>  (This IE is repeated for TFI number.) |         |
| - Transmission Time Interval                                               |           | Not Present                                              |         |
| - Number of Transport blocks                                               |           | Reference to TS34.108 clause 6.10                        |         |
| CHOICE Logical Channel list                                                |           | Parameter Set                                            |         |
| - CHOICE Logical Channel list                                              |           | All                                                      |         |

|                                                           | Condition             | Value/remark                                                  | Version |
|-----------------------------------------------------------|-----------------------|---------------------------------------------------------------|---------|
| - Semi-static Transport Format information                |                       |                                                               |         |
| - Transmission time interval                              |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| - Type of channel coding                                  |                       | Reference to TS34.108 clause 6.10                             |         |
| - Coding Rate                                             |                       | Parameter Set Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Rate matching attribute                                 |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| - CRC size                                                |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| - Uplink transport channel type                           |                       | DCH                                                           |         |
| - UL Transport channel identity - TFS                     |                       | 2                                                             |         |
| - CHOICE Transport channel type                           |                       | Dedicated transport channels                                  |         |
| - Dynamic Transport format information                    |                       | '                                                             |         |
| - RLC Size                                                |                       | Reference to TS34.108 clause 6.10                             |         |
| Number of TDs and TTL List                                |                       | Parameter Set                                                 |         |
| Number of TBs and TTI List     Transmission Time Interval |                       | (This IE is repeated for TFI number.)  Not Present            |         |
| - Number of Transport blocks                              |                       | Reference to TS34.108 clause 6.10                             |         |
| Trained of Traineport Blooks                              |                       | Parameter Set                                                 |         |
| - CHOICE Logical Channel list                             |                       | All                                                           |         |
| - Semi-static Transport Format information                |                       |                                                               |         |
| - Transmission time interval                              |                       | Reference to TS34.108 clause 6.10                             |         |
| - Type of channel coding                                  |                       | Parameter Set Reference to TS34.108 clause 6.10               |         |
| - Type of charmer county                                  |                       | Parameter Set                                                 |         |
| - Coding Rate                                             |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                           |                       | Parameter Set                                                 |         |
| - Rate matching attribute                                 |                       | Reference to TS34.108 clause 6.10                             |         |
| ODO sies                                                  |                       | Parameter Set                                                 |         |
| - CRC size                                                |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| - Uplink transport channel type                           |                       | DCH                                                           |         |
| - UL Transport channel identity                           |                       | 3                                                             |         |
| - TFS                                                     |                       |                                                               |         |
| - CHOICE Transport channel type                           |                       | Dedicated transport channels                                  |         |
| Dynamic Transport format information     RLC Size         |                       | Reference to TS34.108 clause 6.10                             |         |
| - NEC Size                                                |                       | Parameter Set                                                 |         |
| - Number of TBs and TTI List                              |                       | (This IE is repeated for TFI number.)                         |         |
| - Transmission Time Interval                              |                       | Not Present                                                   |         |
| - Number of Transport blocks                              |                       | Reference to TS34.108 clause 6.10                             |         |
| - CHOICE Logical Channel list                             |                       | Parameter Set                                                 |         |
| - Semi-static Transport Format information                |                       |                                                               |         |
| - Transmission time interval                              |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                           |                       | Parameter Set                                                 |         |
| - Type of channel coding                                  |                       | Reference to TS34.108 clause 6.10                             |         |
| - Coding Rate                                             |                       | Parameter Set Reference to TS34.108 clause 6.10               |         |
| - Rate matching attribute                                 |                       | Parameter Set Reference to TS34.108 clause 6.10               |         |
| - CRC size                                                |                       | Parameter Set<br>Reference to TS34.108 clause 6.10            |         |
|                                                           |                       | Parameter Set                                                 |         |
| CHOICE mode                                               | A1, A2, A3,           | FDD                                                           |         |
|                                                           | A4, A5, A6,<br>A7, A8 |                                                               |         |
|                                                           | , A9                  |                                                               | REL-5   |
| ODOLL LID                                                 | , <del>-</del>        | Not Brosset                                                   |         |
| - CPCH set ID - Added or Reconfigured TrCH                |                       | Not Present Not Present                                       |         |
| information for DRAC list                                 |                       | INOLI IESCIIL                                                 |         |
|                                                           |                       |                                                               |         |
| DL Transport channel information common for               | A1, A2, A7,           |                                                               |         |
| all transport channel                                     | A8                    |                                                               | 1       |

| SCCPCH TFCS -CHOICE Mode -CHOICE DL parameters  DL Transport channel information common for all transport channel information -CHOICE TFCS -CHOICE DL parameters -DL DCH TFCS -CHOICE TFC Signalling -TFC1 Field 1 information -TCS complete reconfligure -CHOICE TFC Size  -CTFC -CHOICE TFC Size  -CTFC -Power offset information  -CTFC -Power offset information  -CTFC -Power offset information  -Deleted DL TrCH information  -Dowlink transport channel type -DL Transport channel identity -CHOICE DL parameters -Uplink transport channel type -DL Transport channel identity -CHOICE DL parameters -Uplink transport channel identity -Uplink  | Information Element                                 | Condition | Value/remark                       | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|------------------------------------|---------|
| - CHOICE DL parameters  DL Transport channel information common for all transport channel information common for all transport channel information common for all transport channel information  - SCCPCH TFCS - CHOICE mode - CHOICE TCS Signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE TFC Signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE TFC Signalling - TFCI Field 1 information - CHOICE TFC Signalling - TFCI Field 1 information - CHOICE TFC Signalling - TFC Information - CHOICE TFC Signalling - TFC Information - CHOICE TFC Signalling - TFC Information - CHOICE DL parameters - Power offset information - Deleted DL TrCH information - Downlink transport channel type - DL Transport channel infentity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel information - Downlink transport channel type - DL Transport channel information - Downlink transport channel type - DL Transport channel information - Downlink transport channel type - DL Transport channel information - Downlink transport channel information - RLC Size - CHOICE DL parameters - Uplink transport channel information - Downlink transport channel information - RLC Size - CHOICE DL parameters - Uplink transport channel information - Downlink transport channel information - RLC Size - CHOICE DL parameters - Uplink transport channel information - RLC Size - CHOICE TFC transport channel information - RLC Size - CHOICE DL parameters - Uplink transport channel information - RLC Size - CHOICE DL parameters - Uplink transport channel information - RLC Size - CHOICE DL parameters - Uplink transport channel information - RLC Size - RELE SAMA, A.S A3, A4, A5, A5 - A6, A7 - A7 - DCH quality tr    |                                                     |           |                                    |         |
| - CHOICE DL parameters  OL Transport channel information common for all transport channel information common for all transport channel common for choice of the common common for all transport channel special common common for all transport channel special common common for choice of the choice of the common common for choice of the choice of the common common for choice of the choice o |                                                     |           |                                    |         |
| DL Transport channel information  A3, A4, A5, A6 A9  Not Present FDD Explicit  Normal  Complete reconfiguration  - CHOICE TFCI Signaling - TFCI Field 1 Information - CHOICE TFCS Signaling - TFCI Field 1 Information - CHOICE TFCS Signaling - CHOICE TFCS Signaling - TFCI Field 1 Information - CHOICE TFCS Signaling - CHOICE TFCS Signaling - CHOICE TFCS Size  - CTFC - CHOICE TFCS Size  - CTFC - CTFC - Power offset information  Deleted DL TrCH information  Deleted DL TrCH information  Deleted DL TrCH information  Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8 A7, A8 A7, A8 A7, A9  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel type -  |                                                     |           |                                    |         |
| all transport channel SCCPCH TFCS CHOICE mode CHOICE Duparameters Dubert FCS CHOICE TFCS information TFCS complete reconfigure CHOICE TFCS representation TFCs complete reconfigure CHOICE TFC Size  CTFC Power offset information  Deleted DL TrCH information  Deleted DL TrCH information Deleted DL TrCH information Dumink transport channel type DL Transport channel type DL Transport channel type UL TrCH identity DCH quality target BLER Quality value Downlink transport channel type UL TrCH identity CHOICE DL parameters Uplink transport channel type UL TrCH identity DCH quality target BLER Quality value Downlink transport channel type UL TrCH identity DCH quality target BLER Quality value Downlink transport channel type UL TrCH identity DCH quality target BLER Quality value Downlink transport channel type UL TrCH identity DCH quality target BLER Quality value Downlink transport channel type UL TrCH identity DCH quality target BLER Quality value Downlink transport channel type UL TrCH identity DCH quality transport channel type UL TrCH identity DCH  |                                                     | A2 A4 AE  | Sameasoc                           |         |
| - SCCPCH TFCS - CHOICE Mode - CHOICE TFC Signaling - TFCI Field 1 Information - CHOICE TFCS representation - TFCs complete reconfigure - CHOICE TFC Size  - CTFC information - CTFC information - CTFC - Power offset information  Deleted DL TrCH information - CTFC - Power offset information  A1, A2, A3, A4, A5, A6, A7, A8 - A9  Added or Reconligured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport c |                                                     | A6        |                                    | REL-5   |
| - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI Signaling - TFCI Field 1 Information - CHOICE TFCS Signaling - TFCI Field 1 Information - TFCS complete reconfigure - CHOICE CTFC Size  - CTFC - CTFC information  Deleted DL TrCH information  Deleted DL TrCH information  Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8 - Downlink transport channel type - DL Transport channel type - DL Transport channel type - DL TrCH identity - CHOICE DL parameters - Uplink transport channel type - DL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type | - SCCDCH TECS                                       | , 710     | Not Present                        | 11220   |
| - CHOICE TLG Isgnalling - TCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE TFCS state  - CTFC information - CTFC information - CTFC information - CTFC - Power offset information  Deleted DL TrCH information - Dewell transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Transport channel identity -  |                                                     |           |                                    |         |
| OL DCH TFCS C-CHOICE TFCI Signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size  - CTFC - CTFC information  Deleted DL TrCH information  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH qualify target - BLER Quality value - Downlink transport channel type - UL TrCH identity - DCH qualify target - BLER Quality value - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH qualify target - BLER Quality value - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE |                                                     |           |                                    |         |
| - CHOICE TFCI Signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size  - CTFC information - CTFC information - CTFC - Power offset information  Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8 A7 A7 A8 A7 A8 A7 A8 A7 A7 A8 A7 A7 A8 |                                                     |           | Explicit                           |         |
| - TFCI Field 1 Information - C-HOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size  - CTFC information  - CTFC information  - CTFC information  - CTFC information  - CTFC - Power offset information  - Power offset information  Deleted DL TrCH information - Downlink transport channel type - DL Transport channel lidentity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - U |                                                     |           |                                    |         |
| - TFCS complete reconfigure - CHOICE CTFC Size  - CTFC information  - CTFC information  - CTFC - Power offset information  Deleted DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel identity  |                                                     |           | Normal                             |         |
| - CHOICE CTFC Size  - CTFC information  - CTFC  - CTFC  - Power offset information  Deleted DL TrCH information  Added or Reconfigured DL TrCH information  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - DCH quality target - BLER Quality value - Downlink transport channel identity - CHOICE DL parameters - Uplink t |                                                     |           | Complete reconfiguration           |         |
| - CTFC information  - CTFC - Power offset information  Deleted DL TrCH information  Deleted DL TrCH information  - Downlink transport channel type - DL Transport channel  | - CHOICE CTFC Size                                  |           |                                    |         |
| - CTFC - Power offset information  Deleted DL TrCH information  Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8 - A9  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel elientity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transp |                                                     |           |                                    |         |
| - CTFC - Power offset information  Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8, A9  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters -  | - CTFC information                                  |           |                                    |         |
| - Power offset information  Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8 A7, A8 A9  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel identity - DCH quality target - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - DCH quality target - BLER Quality value - Downlink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - Uplink transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dumanic transport format information - RLC Size - Number of Ts and TTI List - Dynamic transport format information - Transmission Time interval - Number of Transport blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - CTEC                                              |           | 0                                  |         |
| Deleted DL TrCH information  A1, A2, A3, A4, A5, A6, A7, A8 A7, A |                                                     |           | Parameter Set                      |         |
| Added or Reconfigured DL TrCH information Downlink transport channel type DL Transport channel type UL TrCH identity DCH quality target DL Transport channel type DL Transport channel type DL Transport channel type UL TrCH identity DCH quality target Added or Reconfigured DL TrCH information  A3, A4, A5, A6, A7  DCH DCH  1  1  -2.0  DCH DCH DCH DCH DCH DCH Same as UL DCH Same as UL DCH 5  -2.0  DCH DCH DCH Same as UL DCH 5  -2.0  DCH DCH DCH DCH DCH DCH DCH DCH DCH DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     | A1 A2 A2  |                                    |         |
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| - Downlink transport channel type - DL Transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - DCH - CHOICE DL parameters - TFS - CHOICE Transport channel type - DL Transport channel t |                                                     | , A9      |                                    | REL-5   |
| - Downlink transport channel type - DL Transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - DCH - CHOICE DL parameters - TFS - CHOICE Transport channel type - DL Transport channel t | Added or Peconfigured DL TrCH information           | ۸1        | 1 DCH added 1 DCH reconfigured     |         |
| - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel itype - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Same as UL DCH -2.0 DCH -10 -2.0 DCH -5 -2.0 DCH -10 -2.0 DCH - |                                                     | AI        |                                    |         |
| - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Duffick transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Viging as BLER Quality value - 2.0 - DCH - 5 - TCHS(DCH for DCCH and DCH for DTCH) - CHOICE DL parameters - 2.0 - 2.0 - CHOICE DL parameters - 2.0 - DCH - 10 - Same as UL - DCH - 5 - CHOICE DL parameters - 2.0 - DCH - 10 - Same as UL - DCH - 5 - CHOICE DL parameters - 2.0 - DCH - 10 - Same as UL - DCH - 10 |                                                     |           |                                    |         |
| - Uplink transport channel type - UL TrCH identity - DCH quality value - Downlink transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - CHOICE DL parameters - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Value - 2.0 - DCH - CHOICE DL parameters - CHOICE Transport channel type - Dynamic transport format information - Transmission Time Interval - Number of TBs and TTI List - Dynamic transport blocks - Value - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - 2.0 - |                                                     |           | 1 -                                |         |
| - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE Tansport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - 2.0  DCH - 2.0  DCH - 5  - 2.0  DCH - 10  Reference to TS34.108 clause 6.10  Parameter Set  (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |           |                                    |         |
| - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information  A3, A4, A5, A6, A7  - Downlink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - 2.0  - DCH - 10  - Same as UL - DCH - 10  - Same as UL - DCH - 10  - Same as UL - DCH - 10  - CHOICE DL parameters - LES (CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |           |                                    |         |
| - BLER Quality value - Downlink transport channel type - DL Transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - SOM DCH - 2.0 DCH - 10 Same as UL DCH - 2.TrCHs(DCH for DCCH and DCH for DTCH) DCH - 10 Same as UL - 2.0 DCH - 10 Same a |                                                     |           | 1                                  |         |
| - Downlink transport channel type - D. Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Du Transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - UL TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Number of Transport blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |           |                                    |         |
| - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Number of Transport blocks  - Same as UL - DCH - 10 - Same as UL - DCH - 10 - CH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |           | -2.0                               |         |
| - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Same as UL DCH - 2.0  Same as UL  DCH - 10  Same as UL  Titls (Titls (This (Titls (Titl | <ul> <li>Downlink transport channel type</li> </ul> |           | DCH                                |         |
| - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information  A3, A4, A5, A6, A7  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - UltrCH identity - 2.0 - DCH - 5 - CHOICE DL parameters - Explicit - Explicit - Dedicated transport channel - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>DL Transport channel identity</li> </ul>   |           | 10                                 |         |
| - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - TTS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - VIL TrCH identity - 2.0 - DCH - 5 - VIL TrCHs(DCH for DCCH and DCH for DTCH) - CHOICE DL parameters - UTCH) - CHOICE DL parameters - 2.0 - DCH - 6 - Explicit - Explicit - Dedicated transport channel - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           | Same as UL                         |         |
| - UL TrCH identity - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - BLER Quality value - Dunnink transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - StrCHS(DCH for DCCH and DCH for DTCH) DCH - 10 - Same as UL DCH - 5 - C.0 - DCH - 6 - Explicit  - Parameter Set (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |           | DCH                                |         |
| - DCH quality target - BLER Quality value  Added or Reconfigured DL TrCH information  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - BLER Quality value - Downlink transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Number of Transport blocks  - Sa, A4, A5, A6, A7  DCH - 10 - Same as UL - DCH - 5 - 2.0 - DCH - 6 - Explicit - Parameter Set  Dedicated transport channel - Parameter Set (This IE is repeated for TFI number.)  Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |           | =                                  |         |
| - BLER Quality value  Added or Reconfigured DL TrCH information  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - BUER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - 2.0  DCH - 2.0  DCH - 2.0  DCH - 5  Explicit  Dedicated transport channel  Reference to TS34.108 clause 6.10  Parameter Set  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |           |                                    |         |
| Added or Reconfigured DL TrCH information  - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - BUER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - StrCHs(DCH for DCCH and DCH for DTCH) DCH - 10 - Same as UL - CHOICE DL parameter Set - 2.0 - DCH - 6 - Explicit - Dedicated transport channel - Parameter Set - (This IE is repeated for TFI number.) - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |           | -2 0                               |         |
| - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Downlink transport channel type - Dedicated transport channel - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     | Δ3 Λ4 Λ5  |                                    |         |
| - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - DCH - 2.0 - DCH - 6 - Explicit - Explicit - Dedicated transport channel - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Added of Neconinguled DL 1100 Initimation           |           | l '                                |         |
| - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - DUTH - 2.0 - DCH - 6 - Explicit  - Explicit  - Dedicated transport channel  Reference to TS34.108 clause 6.10 - Parameter Set  (This IE is repeated for TFI number.)  Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Downlink transport shares at the                    | A0, A7    |                                    |         |
| - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Same as UL DCH  5  -2.0  DCH  6  Explicit  - Pedicated transport channel  Reference to TS34.108 clause 6.10  Parameter Set  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |           |                                    |         |
| - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - UCH  - 2.0  DCH  - 2.0  DCH  6  Explicit  - Dedicated transport channel  Dedicated transport channel  Reference to TS34.108 clause 6.10  Parameter Set  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |           | =                                  |         |
| - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - UL TrCH identity - 2.0  DCH - 6  Explicit  - Explicit  - Dedicated transport channel  Reference to TS34.108 clause 6.10  Parameter Set  (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |           |                                    |         |
| - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - DCH - 6 - Explicit - Explicit - Dedicated transport channel - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     |           | _                                  |         |
| - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - SLER Quality value - 2.0  DCH 6 6 Explicit  - Explicit  - Dedicated transport channel  Reference to TS34.108 clause 6.10  Parameter Set  (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |           | 5                                  |         |
| - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - SLER Quality value - 2.0  DCH 6 6 Explicit  - Explicit  - Dedicated transport channel  Reference to TS34.108 clause 6.10  Parameter Set  (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - DCH quality target                                |           |                                    |         |
| - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Doedicated transport channel - Dedicated transport channel - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |           | -2.0                               |         |
| - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - DL Transport channel - Explicit  - Dedicated transport channel  Reference to TS34.108 clause 6.10 - Parameter Set  (This IE is repeated for TFI number.)  Not Present - Reference to TS34.108 clause 6.10 - Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |           | DCH                                |         |
| - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  Explicit  Dedicated transport channel  Reference to TS34.108 clause 6.10 Parameter Set  (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |           | 6                                  |         |
| - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Number of Transport blocks  - Dedicated transport channel  Reference to TS34.108 clause 6.10 Parameter Set  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |           | I -                                |         |
| - CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  - Dedicated transport channel  Reference to TS34.108 clause 6.10 Parameter Set  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           |                                    |         |
| - Dynamic transport format information - RLC Size  Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)  Not Present Number of Transport blocks  Not Present Reference to TS34.108 clause 6.10 Parameter Set  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | I                                                   |           | Dedicated transport channel        |         |
| - RLC Size  Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)  Dynamic transport format information Transmission Time Interval Number of Transport blocks Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           | 2 ca. sate a transport originion   |         |
| Parameter Set  - Number of TBs and TTI List  - Dynamic transport format information  - Transmission Time Interval  - Number of Transport blocks  Parameter Set  (This IE is repeated for TFI number.)  Not Present  Reference to TS34.108 clause 6.10  Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |           | Reference to TS34 108 clause 6 10  |         |
| - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  (This IE is repeated for TFI number.)  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - INLO GIZE                                         |           |                                    |         |
| - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Number of TDe and TTLL int                          |           |                                    |         |
| - Transmission Time Interval - Number of Transport blocks  Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |           | (This is repeated for TFI number.) |         |
| - Number of Transport blocks  Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           | Not Donosat                        |         |
| Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |           |                                    |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - Number of Transport blocks                        |           |                                    |         |
| OUDIOE L'IOL LE (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |           |                                    |         |
| - CHOICE Logical Channel list All                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - CHOICE Logical Channel list                       |           | All                                |         |

| Information Element                                                | Condition | Value/remark                          | Version |
|--------------------------------------------------------------------|-----------|---------------------------------------|---------|
| - Semi-static Transport Format information                         | 1         |                                       |         |
| - Transmission time interval                                       |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| <ul> <li>Type of channel coding</li> </ul>                         |           | Reference to TS34.108 clause 6.10     |         |
| ,,                                                                 |           | Parameter Set                         |         |
| - Coding Rate                                                      |           | Reference to TS34.108 clause 6.10     |         |
| ŭ                                                                  |           | Parameter Set                         |         |
| - Rate matching attribute                                          |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| - CRC size                                                         |           | Reference to TS34.108 clause 6.10     |         |
| 0.10 0.20                                                          |           | Parameter Set                         |         |
| - DCH quality target                                               |           |                                       |         |
| - BLER Quality value                                               |           | -2.0                                  |         |
| Added or Reconfigured DL TrCH information                          | A2, A8    | 4 TrCHs(DCH for DCCH and 3DCHs        |         |
| 7.dada di 1.dada inigarda 22 11011 inidiniadan                     | 712,710   | for DTCH)                             |         |
| - Downlink transport channel type                                  |           | DCH                                   |         |
| - DL Transport channel identity                                    |           | 10                                    |         |
| - CHOICE DL parameters                                             |           | Same as UL                            |         |
| - Uplink transport channel type                                    |           | DCH                                   |         |
|                                                                    |           | 5                                     |         |
| - UL TrCH identity                                                 |           | 3                                     |         |
| <ul> <li>DCH quality target</li> <li>BLER Quality value</li> </ul> |           | 2.0                                   |         |
|                                                                    |           | 2.0<br>  DCH                          |         |
| - Downlink transport channel type                                  |           |                                       |         |
| - DL Transport channel identity                                    |           | 6                                     |         |
| - CHOICE DL parameters                                             |           | Explicit                              |         |
| - TFS                                                              |           |                                       |         |
| - CHOICE Transport channel type                                    |           | Dedicated transport channel           |         |
| <ul> <li>Dynamic transport format information</li> </ul>           |           |                                       |         |
| - RLC Size                                                         |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| <ul> <li>Number of TBs and TTI List</li> </ul>                     |           | (This IE is repeated for TFI number.) |         |
| <ul> <li>Dynamic transport format information</li> </ul>           |           |                                       |         |
| <ul> <li>Transmission Time Interval</li> </ul>                     |           | Not Present                           |         |
| <ul> <li>Number of Transport blocks</li> </ul>                     |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| <ul> <li>CHOICE Logical Channel list</li> </ul>                    |           | All                                   |         |
| <ul> <li>Semi-static Transport Format information</li> </ul>       |           |                                       |         |
| - Transmission time interval                                       |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| <ul> <li>Type of channel coding</li> </ul>                         |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| - Coding Rate                                                      |           | Reference to TS34.108 clause 6.10     |         |
| <b>v</b>                                                           |           | Parameter Set                         |         |
| - Rate matching attribute                                          |           | Reference to TS34.108 clause 6.10     |         |
| <b>S</b>                                                           |           | Parameter Set                         |         |
| - CRC size                                                         |           | Reference to TS34.108 clause 6.10     |         |
|                                                                    |           | Parameter Set                         |         |
| - DCH quality target                                               |           |                                       |         |
| - BLER Quality value                                               |           | Not Present                           |         |
| - Downlink transport channel type                                  |           | DCH                                   |         |
| - DL Transport channel identity                                    |           | 7                                     |         |
| - CHOICE DL parameters                                             |           | Explicit                              |         |
| - TFS                                                              |           |                                       |         |
| - CHOICE Transport channel type                                    |           | Dedicated transport channel           |         |
| Dynamic transport format information                               |           | Dodioated transport originie          |         |
| - Dynamic transport format information<br>- RLC Size               |           | Reference to TS34.108 clause 6.10     |         |
| - INLO SIZE                                                        |           | Parameter Set                         |         |
| Number of TPs and TTLList                                          |           |                                       |         |
| - Number of TBs and TTI List                                       |           | (This IE is repeated for TFI number.) |         |
| - Dynamic transport format information                             |           | Not Propert                           |         |
| - Transmission Time Interval                                       |           | Not Present                           |         |
| <ul> <li>Number of Transport blocks</li> </ul>                     |           | Reference to TS34.108 clause 6.10     |         |
| 01101051                                                           |           | Parameter Set                         |         |
| - CHOICE Logical Channel list                                      |           | All                                   |         |
| - Semi-static Transport Format information                         |           | _ ,                                   |         |
| - Transmission time interval                                       |           | Reference to TS34.108 clause 6.10     |         |
| _ ,                                                                |           | Parameter Set                         |         |
| - Type of channel coding                                           | 1         | Reference to TS34.108 clause 6.10     |         |

| Information Element                                                                | Condition | Value/remark                                             | Version |
|------------------------------------------------------------------------------------|-----------|----------------------------------------------------------|---------|
| - Coding Rate                                                                      |           | Parameter Set Reference to TS34.108 clause 6.10          |         |
| -                                                                                  |           | Parameter Set                                            |         |
| - Rate matching attribute                                                          |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - CRC size                                                                         |           | Reference to TS34.108 clause 6.10                        |         |
| DCH quality target                                                                 |           | Parameter Set                                            |         |
| - DCH quality target - BLER Quality value                                          |           | Not Present                                              |         |
| <ul> <li>Downlink transport channel type</li> </ul>                                |           | DCH                                                      |         |
| DL Transport channel identity     CHOICE DL parameters                             |           | 8                                                        |         |
| - TFS                                                                              |           | Explicit                                                 |         |
| - CHOICE Transport channel type                                                    |           | Dedicated transport channel                              |         |
| Dynamic transport format information     RLC Size                                  |           | Reference to TS34.108 clause 6.10                        |         |
| - NEO Oize                                                                         |           | Parameter Set                                            |         |
| - Number of TBs and TTI List                                                       |           | (This IE is repeated for TFI number.)                    |         |
| Dynamic transport format information     Transmission Time Interval                |           | Not Present                                              |         |
| - Number of Transport blocks                                                       |           | Reference to TS34.108 clause 6.10                        |         |
| OHOLOG La siant Obanca di liat                                                     |           | Parameter Set                                            |         |
| - CHOICE Logical Channel list     - Semi-static Transport Format information       |           | All                                                      |         |
| - Transmission time interval                                                       |           | Reference to TS34.108 clause 6.10                        |         |
| Type of channel coding                                                             |           | Parameter Set Reference to TS34.108 clause 6.10          |         |
| - Type of channel coding                                                           |           | Parameter Set                                            |         |
| - Coding Rate                                                                      |           | Reference to TS34.108 clause 6.10                        |         |
| - Rate matching attribute                                                          |           | Parameter Set Reference to TS34.108 clause 6.10          |         |
| rate matering attribute                                                            |           | Parameter Set                                            |         |
| - CRC size                                                                         |           | Reference to TS34.108 clause 6.10                        |         |
| - DCH quality target                                                               |           | Parameter Set                                            |         |
| - BLER Quality value                                                               |           | Not Present                                              |         |
| Added or Reconfigured DL TrCH information                                          | A9        | 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH)     | REL-5   |
| - Downlink transport channel type                                                  |           | DCH                                                      |         |
| <ul> <li>DL Transport channel identity</li> </ul>                                  |           | 10                                                       |         |
| - CHOICE DL parameters     - Uplink transport channel type                         |           | Same as UL                                               |         |
| - UL TrCH identity                                                                 |           | DCH<br>  5                                               |         |
| - DCH quality target                                                               |           |                                                          |         |
| - BLER Quality value - Downlink transport channel type                             |           | -2.0<br>  DCH                                            |         |
| - DL Transport channel identity                                                    |           | 6                                                        |         |
| - CHOICE DL parameters                                                             |           | Explicit                                                 |         |
| - TFS<br>- CHOICE Transport channel type                                           |           | Dedicated transport channel                              |         |
| <ul> <li>Dynamic transport format information</li> </ul>                           |           | -                                                        |         |
| - RLC Size                                                                         |           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
| - Number of TBs and TTI List                                                       |           | Parameter Set<br>  (This IE is repeated for TFI number.) |         |
| - Dynamic transport format information                                             |           | ,                                                        |         |
| <ul> <li>Transmission Time Interval</li> <li>Number of Transport blocks</li> </ul> |           | Not Present<br>Reference to TS34.108 clause 6.10         |         |
| - Number of Hansport blocks                                                        |           | Parameter Set                                            |         |
| - CHOICE Logical Channel list                                                      |           | All                                                      |         |
| Semi-static Transport Format information     Transmission time interval            |           | Reference to TS34.108 clause 6.10                        |         |
|                                                                                    |           | Parameter Set                                            |         |
| - Type of channel coding                                                           |           | Reference to TS34.108 clause 6.10                        |         |
| - Coding Rate                                                                      |           | Parameter Set Reference to TS34.108 clause 6.10          |         |
| -                                                                                  |           | Parameter Set                                            |         |
| <ul> <li>Rate matching attribute</li> </ul>                                        |           | Reference to TS34.108 clause 6.10                        |         |

| Information Element                                         | Condition                 | Value/remark                                             | Version |
|-------------------------------------------------------------|---------------------------|----------------------------------------------------------|---------|
| - CRC size                                                  |                           | Parameter Set<br>Reference to TS34.108 clause 6.10       |         |
| - CRC Size                                                  |                           | Parameter Set                                            |         |
| - DCH quality target                                        |                           |                                                          |         |
| - BLER Quality value                                        |                           | -2.0                                                     |         |
| - Downlink transport channel type                           |                           | HS-DSCH                                                  |         |
| DL Transport channel identity     CHOICE DL parameters      |                           | Not Present HS-DSCH                                      |         |
| - HARQ Info                                                 |                           | 113-03011                                                |         |
| - Number of Processes                                       |                           | 6                                                        |         |
| - CHOICE Memory Partitioning                                |                           | Implicit                                                 |         |
| - Added or reconfigured MAC-d flow                          |                           |                                                          |         |
| - MAC-hs queue to add or reconfigure                        |                           | (one queue)                                              |         |
| - MAC-hs queue ld                                           |                           | 0                                                        |         |
| - MAC-d Flow Identity                                       |                           | Ö                                                        |         |
| - T1                                                        |                           | 50                                                       |         |
| - MAC-hs window size                                        |                           | 16                                                       |         |
| - MAC-d PDU size Info                                       |                           | 000                                                      |         |
| - MAC-d PDU size<br>- MAC-d PDU size index                  |                           | 336                                                      |         |
| - MAC-hs queue to delete list                               |                           | Not present                                              |         |
| - DCH quality target                                        |                           | Not present                                              |         |
| Frequency info                                              | A1, A2, A3,               |                                                          |         |
|                                                             | A4, A5, A7,               |                                                          |         |
|                                                             | A8                        |                                                          | REL-5   |
|                                                             | , A9                      |                                                          | KEL-5   |
| - UARFCN uplink (Nu)                                        |                           | Reference to clause 5.1 Test                             |         |
|                                                             |                           | frequencies if frequency is different                    |         |
|                                                             |                           | from the current frequency otherwise set to Not Present. |         |
| - UARFCN downlink (Nd)                                      |                           | Reference to clause 5.1 Test                             |         |
| Oraci Oracominina (rea)                                     |                           | frequencies if frequency is different                    |         |
|                                                             |                           | from the current frequency otherwise                     |         |
|                                                             |                           | set to Not Present.                                      |         |
| Frequency info                                              | A6                        | Not Present                                              |         |
| Maximum allowed UL TX power                                 | A1, A2, A3,<br>A4, A7, A8 | 33dBm                                                    |         |
|                                                             | , A9                      |                                                          | REL-5   |
| Mariana allamadalli TV annon                                |                           | Not Decomp                                               |         |
| Maximum allowed UL TX power CHOICE channel requirement      | A5, A6<br>A1, A2, A3,     | Not Present Uplink DPCH info                             |         |
|                                                             | A1, A2, A3,<br>A4, A7, A8 | Opinik DECITIIIIO                                        |         |
| - Uplink DPCH power control info                            | 7.1,7.1,7.10              |                                                          |         |
| - DPCCH power offset                                        |                           | -80dB (i.e. ASN.1 IE value of -40)                       |         |
| - PC Preamble                                               |                           | 1 frame                                                  |         |
| - SRB delay<br>- Power Control Algorithm                    |                           | 7 frames                                                 |         |
| - Power Control Algorithm - TPC step size                   |                           | Algorithm1 1dB                                           |         |
| - Δ <sub>NACK</sub>                                         |                           | Not Present                                              | REL-5   |
| - Δnack                                                     |                           | Not Present                                              | REL-5   |
| - Ack-Nack repetition factor                                |                           | Not Present                                              | REL-5   |
| - Scrambling code type                                      |                           | Long                                                     |         |
| - Scrambling code number                                    |                           | 0 (0 to 16777215)                                        |         |
| - Number of DPDCH                                           |                           | Not Present(1) Reference to TS34.108 clause 6.10         |         |
| - spreading factor                                          |                           | Parameter Set                                            |         |
| - TFCI existence                                            |                           | Reference to TS34.108 clause 6.10                        |         |
|                                                             |                           | Parameter Set                                            |         |
| - Number of FBI bit                                         |                           | Reference to TS34.108 clause 6.10                        |         |
| Dunaturing Limit                                            |                           | Parameter Set                                            |         |
| - Puncturing Limit                                          |                           | Reference to TS34.108 clause 6.10 Parameter Set          |         |
|                                                             | A9                        | Uplink DPCH info                                         | REL-5   |
| L CHOICE channel requirement                                |                           |                                                          |         |
| CHOICE channel requirement - Uplink DPCH power control info | A9                        | Opinik Br Offinio                                        |         |

| Information Element                                                                                                                                                                      | Condition                     | Value/remark                                    | Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------|---------|
| - PC Preamble                                                                                                                                                                            |                               | 1 frame                                         |         |
| - SRB delay                                                                                                                                                                              |                               | 7 frames                                        |         |
| - Power Control Algorithm                                                                                                                                                                |                               | Algorithm1                                      |         |
| - TPC step size                                                                                                                                                                          |                               | 1dB                                             |         |
| - Δ <sub>ACK</sub>                                                                                                                                                                       |                               | 3                                               |         |
| - Anack                                                                                                                                                                                  |                               | 3                                               |         |
| - Ack-Nack repetition factor                                                                                                                                                             |                               | 1                                               |         |
| - Scrambling code type                                                                                                                                                                   |                               | ·                                               |         |
|                                                                                                                                                                                          |                               | Long                                            |         |
| - Scrambling code number                                                                                                                                                                 |                               | 0 (0 to 16777215)                               |         |
| - Number of DPDCH                                                                                                                                                                        |                               | Not Present(1)                                  |         |
| - spreading factor                                                                                                                                                                       |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - TFCI existence                                                                                                                                                                         |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Number of FBI bit                                                                                                                                                                      |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Puncturing Limit                                                                                                                                                                       |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| CHOICE channel requirement                                                                                                                                                               | A5,A6                         | Not Present                                     |         |
| CHOICE Mode                                                                                                                                                                              | A1, A2, A3,                   | FDD                                             |         |
| STIGIGE INIGGS                                                                                                                                                                           | A4, A5, A6,<br>A7, A8<br>, A9 |                                                 | REL-5   |
| - Downlink PDSCH information                                                                                                                                                             |                               | Not Present                                     |         |
| Downlink information common for all radio links                                                                                                                                          | A1 A2 A2                      | Not Flesent                                     |         |
| Downlink Information common for all radio links     Downlink DPCH info common for all RL     Timing indicator     CFN-targetSFN frame offset     Downlink DPCH power control information | A1, A2, A3                    | Maintain<br>Not Present                         |         |
| - DPC mode                                                                                                                                                                               |                               | 0 (single)                                      |         |
| - CHOICE mode                                                                                                                                                                            |                               | FDD                                             |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                  |                               | 0                                               |         |
| - DL rate matching restriction information                                                                                                                                               |                               | Not Present                                     |         |
| - Spreading factor                                                                                                                                                                       |                               | Reference to TS34.108 clause 6.10               |         |
| - Spreading factor                                                                                                                                                                       |                               | Parameter Set                                   |         |
| - Fixed or Flexible Position                                                                                                                                                             |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - TFCI existence                                                                                                                                                                         |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - CHOICE SF                                                                                                                                                                              |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - CHOICE mode                                                                                                                                                                            |                               | FDD                                             |         |
| - DPCH compressed mode info                                                                                                                                                              |                               | Not Present                                     |         |
| - TX Diversity mode                                                                                                                                                                      |                               | None                                            |         |
| - SSDT information                                                                                                                                                                       |                               | Not Present                                     |         |
| - Default DPCH Offset Value                                                                                                                                                              |                               | Not Present                                     |         |
| Downlink information common for all radio links                                                                                                                                          | A9                            | INOLFIESCHL                                     | DEI E   |
|                                                                                                                                                                                          | A9                            |                                                 | REL-5   |
| - Downlink DPCH info common for all RL                                                                                                                                                   |                               | NA-intela                                       |         |
| - Timing indicator                                                                                                                                                                       |                               | Maintain                                        |         |
| - CFN-targetSFN frame offset                                                                                                                                                             |                               | Not Present                                     |         |
| - Downlink DPCH power control                                                                                                                                                            |                               |                                                 |         |
| information                                                                                                                                                                              |                               |                                                 |         |
| - DPC mode                                                                                                                                                                               |                               | 0 (single)                                      |         |
| - CHOICE mode                                                                                                                                                                            |                               | FDD                                             |         |
| - Power offset PPilot-DPDCH                                                                                                                                                              |                               | 0                                               |         |
| <ul> <li>DL rate matching restriction information</li> </ul>                                                                                                                             |                               | Not Present                                     |         |
| - Spreading factor                                                                                                                                                                       |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Fixed or Flexible Position                                                                                                                                                             |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - TFCI existence                                                                                                                                                                         |                               | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - CHOICE SF                                                                                                                                                                              |                               | Reference to TS34.108 clause 6.10               |         |
| 3.13.32 31                                                                                                                                                                               |                               | Parameter Set                                   |         |

| Information Element                                      | Condition                  | Value/remark                                    | Version |
|----------------------------------------------------------|----------------------------|-------------------------------------------------|---------|
| - CHOICE mode                                            | Condition                  | FDD                                             | Version |
| - DPCH compressed mode info                              |                            | Not Present                                     |         |
| - TX Diversity mode                                      |                            | None                                            |         |
| - SSDT information                                       |                            | Not Present                                     |         |
| - Default DPCH Offset Value                              |                            | Not Present                                     |         |
| - MAC-hs reset indicator                                 |                            | TRUE                                            |         |
| Downlink information common for all radio links          | A4,A7,A8                   |                                                 |         |
| <ul> <li>Downlink DPCH info common for all RL</li> </ul> |                            |                                                 |         |
| - Timing indicator                                       |                            | Initialise                                      |         |
| - CFN-targetSFN frame offset                             |                            | Not Present                                     |         |
| - Downlink DPCH power control information                |                            |                                                 |         |
| - DPC mode                                               |                            | 0 (single)                                      |         |
| - CHOICE mode                                            |                            | FDD                                             |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                  |                            | 0                                               |         |
| - DL rate matching restriction information               |                            | Not Present                                     |         |
| - Spreading factor                                       |                            | Reference to TS34.108 clause 6.10               |         |
|                                                          |                            | Parameter Set                                   |         |
| - Fixed or Flexible Position                             |                            | Reference to TS34.108 clause 6.10               |         |
| TECL evictories                                          |                            | Parameter Set                                   |         |
| - TFCI existence                                         |                            | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - CHOICE SF                                              |                            | Reference to TS34.108 clause 6.10               |         |
| 0.10102 01                                               |                            | Parameter Set                                   |         |
| - CHOICE mode                                            |                            | FDD                                             |         |
| - DPCH compressed mode info                              |                            | Not Present                                     |         |
| - TX Diversity mode                                      |                            | None                                            |         |
| - SSDT information                                       |                            | Not Present                                     |         |
| - Default DPCH Offset Value                              |                            | Arbitrary set to value 0306688 by step          |         |
| Downlink HS-PDSCH Information                            | A1, A2, A3,                | of 512<br>Not Present                           | REL-5   |
| Downlink 113-FD3C11 Information                          | A1, A2, A3,<br>A4, A5, A6, | Not Flesent                                     | NEL-5   |
|                                                          | A7, A8                     |                                                 |         |
| Downlink HS-PDSCH Information                            | A9                         |                                                 | REL-5   |
| - HS-SCCH Info                                           |                            |                                                 |         |
| - CHOICE mode                                            |                            | FDD                                             |         |
| - DL Scrambling Code                                     |                            |                                                 |         |
| - HS-SCCH Channelisation Code                            |                            |                                                 |         |
| Information - HS-SCCH Channelisation Code                |                            | 1                                               |         |
| - Measurement Feedback Info                              |                            | '                                               |         |
| - CHOICE mode                                            |                            | FDD                                             |         |
| - POhsdsch                                               |                            | 6 dB                                            |         |
| - CQI Feedback cycle, k                                  |                            | 4 ms                                            |         |
| - CQI repetition factor                                  |                            | 1                                               |         |
| - $\Delta_{\text{CQI}}$                                  |                            | 5 (corresponds to 0dB in relative power         |         |
| - CHOICE mode                                            |                            | offset)<br>FDD (no data)                        |         |
| Downlink information common for all radio links          | A5,A6                      | Not Present                                     |         |
| Downlink information for each radio link list            | A1, A2, A3,                | 113.1 100011.                                   |         |
|                                                          | A4, A7, A8                 |                                                 |         |
| - Downlink information for each radio link               | , -                        |                                                 |         |
| - Choice mode                                            |                            | FDD                                             |         |
| - Primary CPICH info                                     |                            | B ( , , , , , , , , , , , , , , , , , ,         |         |
| - Primary scrambling code                                |                            | Ref. to the Default setting in TS34.108         |         |
| - PDSCH with SHO DCH info                                |                            | clause 6.1 (FDD)  Not Present                   |         |
| - PDSCH with SHO DCH into                                |                            | Not Present                                     |         |
| - Serving HS-DSCH radio link indicator                   |                            | FALSE                                           | REL-5   |
| - Downlink DPCH info for each RL                         |                            |                                                 |         |
| - Primary CPICH usage for channel                        |                            | Primary CPICH may be used                       |         |
| estimation                                               |                            |                                                 |         |
| - DPCH frame offset                                      |                            | Set to value Default DPCH Offset Value          |         |
| Cocondon: CDICLL info                                    |                            | (as currently stored in SS) mod 38400           |         |
| - Secondary CPICH info - DL channelisation code          |                            | Not Present                                     |         |
| - Secondary scrambling code                              |                            | 1                                               |         |
| 1 Occordary Scrambing Code                               | 1                          | j '                                             | l       |

| Information Element                           | Condition | Value/remark                            | Version |
|-----------------------------------------------|-----------|-----------------------------------------|---------|
| - Spreading factor                            |           | Reference to TS34.108 clause 6.10       |         |
|                                               |           | Parameter Set                           |         |
| - Code number                                 |           | 0                                       |         |
| - Scrambling code change                      |           | No change                               |         |
| - TPC combination index                       |           | 0                                       |         |
| - SSDT Cell Identity                          |           | Not Present                             |         |
| - Closed loop timing adjustment mode          |           | Not Present                             |         |
| - SCCPCH information for FACH                 |           | Not Present                             |         |
| Downlink information for each radio link list | A5        |                                         |         |
| - Downlink information for each radio link    |           |                                         |         |
| - Choice mode                                 |           | FDD                                     |         |
| - Primary CPICH info                          |           |                                         |         |
| - Primary scrambling code                     |           | Ref. to the Default setting in TS34.108 |         |
|                                               |           | clause 6.1 (FDD)                        |         |
| - PDSCH with SHO DCH info                     |           | Not Present                             |         |
| - PDSCH code mapping                          |           | Not Present                             |         |
| - Serving HS-DSCH radio link indicator        |           | FALSE                                   | REL-5   |
| - Downlink DPCH info for each RL              |           | Not present                             | 0       |
| - SCCPCH information for FACH                 |           | Not Present                             |         |
| Downlink information for each radio link list | A9        |                                         | REL-5   |
| Downlink information for each radio link      | 7.0       |                                         | 11220   |
| - Choice mode                                 |           | FDD                                     |         |
| - Primary CPICH info                          |           |                                         |         |
| - Primary scrambling code                     |           | Ref. to the Default setting in TS34.108 |         |
| a. y corag code                               |           | clause 6.1 (FDD)                        |         |
| - PDSCH with SHO DCH info                     |           | Not Present                             |         |
| - PDSCH code mapping                          |           | Not Present                             |         |
| - Serving HS-DSCH radio link indicator        |           | TRUE                                    |         |
| - Downlink DPCH info for each RL              |           | 11102                                   |         |
| - Primary CPICH usage for channel             |           | Primary CPICH may be used               |         |
| estimation                                    |           | I filliary of for fillay be used        |         |
| - DPCH frame offset                           |           | Set to value Default DPCH Offset Value  |         |
| Di Ori name onset                             |           | (as currently stored in SS) mod 38400   |         |
| - Secondary CPICH info                        |           | Not Present                             |         |
| - DL channelisation code                      |           | THOU TOSOII                             |         |
| - Secondary scrambling code                   |           | 1                                       |         |
| - Spreading factor                            |           | Reference to TS34.108 clause 6.10       |         |
| Opticading factor                             |           | Parameter Set                           |         |
| - Code number                                 |           | 0                                       |         |
| - Scrambling code change                      |           | No change                               |         |
| - TPC combination index                       |           | 0                                       |         |
| - SSDT Cell Identity                          |           | Not Present                             |         |
| Closed loop timing adjustment mode            |           | Not Present                             |         |
| - SCCPCH information for FACH                 |           | Not Present                             |         |
| Downlink information for each radio link list | A6        | Not Present                             |         |
| DOWNWINK INIONNALION FOR EACH TACIO IINK IISL | ΛU        | ואטנו ופסכוונ                           |         |

| Condition | Explanation                                                          | Version |
|-----------|----------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech to CELL_DCH from CELL_DCH in CS"        |         |
| A2        | This IE need for "Speech to CELL_DCH from CELL_DCH in CS"            |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"            |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"           |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"           |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"          |         |
| A7        | This IE need for "Non speech to CELL_DCH from CELL_FACH in CS"       |         |
| A8        | This IE need for "Speech to CELL_DCH from CELL_FACH in CS"           |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in | REL-5   |
|           | PS"                                                                  |         |

# Contents of RADIO BEARER SETUP COMPLETE message: $\ensuremath{\mathsf{AM}}$

| Message Type                                       |                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.                                                                                                                                                                                                      |
| Integrity check info                               |                                                                                                                                                                                                                                                                                                          |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                                                     |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                                                                                                                         |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                                                                                                                             |
| CHOICE mode                                        | FDD                                                                                                                                                                                                                                                                                                      |
| START                                              | Not checked (if ciphering is OFF), check the presence if ciphering is ON.                                                                                                                                                                                                                                |
| COUNT-C activation time                            | The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER SETUP message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER SETUP message established the first RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent. |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                                                                                                                              |
| Uplink counter synchronisation info                | Not present                                                                                                                                                                                                                                                                                              |

## Contents of RADIO BEARER SETUP FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 |                                                                                                                                                                                                      |
| RRC transaction identitifer                                  | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message.                                                                                            |
| Integrity check info                                         |                                                                                                                                                                                                      |
| - Message authentication code                                | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not checked                                                                                                                                                                                          |

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

| Information Element                                                                              | Condition   | Value/remark                             | Version |
|--------------------------------------------------------------------------------------------------|-------------|------------------------------------------|---------|
| Message Type                                                                                     | A1,A2,A3,   |                                          |         |
|                                                                                                  | A4,A5,A6    |                                          |         |
| RRC transaction identifier                                                                       |             | Arbitrarily selects an integer between 0 |         |
|                                                                                                  |             | and 3                                    |         |
| Integrity check info                                                                             |             |                                          |         |
| <ul> <li>message authentication code</li> </ul>                                                  |             | SS calculates the value of MAC-I for     |         |
|                                                                                                  |             | this message and writes to this IE. The  |         |
|                                                                                                  |             | first/ leftmost bit of the bit string    |         |
|                                                                                                  |             | contains the most significant bit of the |         |
|                                                                                                  |             | MAC-I.                                   |         |
| <ul> <li>RRC message sequence number</li> </ul>                                                  |             | SS provides the value of this IE, from   |         |
|                                                                                                  |             | its internal counter.                    |         |
| Integrity protection mode info                                                                   |             | Not Present                              |         |
| Ciphering mode info                                                                              |             | Not Present                              |         |
| Activation time                                                                                  | A1,A2,A3    | (256+CFN-(CFN MOD 8 + 8))MOD 256         |         |
| Activation time                                                                                  | A4, A5,A6   | Not Present                              |         |
| New U-RNTI                                                                                       |             | Not Present                              |         |
| New C-RNTI                                                                                       | A1, A2, A3, | Not Present                              |         |
|                                                                                                  | A4,         |                                          |         |
| New C-RNTI                                                                                       | A5, A6      | '1010 1010 1010 1010'                    |         |
| New DSCH-RNTI                                                                                    | A1, A2, A3, | Not Present                              |         |
|                                                                                                  | A4, A5, A6  |                                          |         |
| New H-RNTI                                                                                       | A1, A2, A3, | Not Present                              | REL-5   |
|                                                                                                  | A4, A5, A6  |                                          |         |
| RRC State indicator                                                                              | A1, A2, A3, | CELL_DCH                                 |         |
|                                                                                                  | A4          | _                                        |         |
| RRC State indicator                                                                              | A5, A6      | CELL_FACH                                |         |
| UTRAN DRX cycle length coefficient                                                               | A1,A2,A3,   | Not Present                              |         |
| , ,                                                                                              | A4,A5,A6    |                                          |         |
| CN information info                                                                              | , ,         | Not Present                              |         |
| URA identity                                                                                     |             | Not Present                              |         |
| CHOICE specification mode                                                                        |             | [FFS]                                    | REL-5   |
| RAB information to reconfigure list                                                              |             | Not Present                              |         |
| RB information to reconfigure list                                                               | A1          | TS25.331 specifies that "Although this   |         |
| <b>3</b>                                                                                         |             | IE is not always required, need is MP to |         |
|                                                                                                  |             | align with ASN.1".                       |         |
| - RB information to reconfigure                                                                  |             | (UM DCCH for RRC)                        |         |
| - RB identity                                                                                    |             | 1                                        |         |
| - PDCP info                                                                                      |             | Not Present                              |         |
| - PDCP SN info                                                                                   |             | Not Present                              |         |
| - RLC info                                                                                       |             | Not Present                              |         |
| - RB mapping info                                                                                |             | Not Present                              |         |
| - RB stop/continue                                                                               |             | Not Present                              |         |
| - RB information to reconfigure                                                                  |             | (AM DCCH for RRC)                        |         |
| - RB identity                                                                                    |             | 2                                        |         |
| - PDCP info                                                                                      |             | Not Present                              |         |
| - PDCP SN info                                                                                   |             | Not Present                              |         |
| - RLC info                                                                                       |             | Not Present                              |         |
| - RB mapping info                                                                                |             | Not Present                              |         |
| - RB stop/continue                                                                               |             | Not Present                              |         |
| - RB information to reconfigure                                                                  |             | (AM DCCH for NAS_DT High priority)       |         |
| - RB identity                                                                                    |             | 3                                        |         |
| - PDCP info                                                                                      |             | Not Present                              |         |
| - PDCP SN info                                                                                   |             | Not Present                              |         |
| - RLC info                                                                                       |             | Not Present                              |         |
| - RB mapping info                                                                                |             | Not Present                              |         |
| - RB stop/continue                                                                               |             | Not Present                              |         |
| <ul> <li>RB information to reconfigure</li> </ul>                                                |             | (AM DCCH for NAS_DT Low priority)        |         |
| - RB identity                                                                                    |             | 4                                        |         |
| - PDCP info                                                                                      |             | Not Present                              |         |
| - PDCP SN info                                                                                   | I           | Not Present                              |         |
|                                                                                                  |             | I N . B                                  | 1       |
| - RLC info                                                                                       |             | Not Present                              |         |
| - RB mapping info                                                                                |             | Not Present Not Present                  |         |
| <ul><li>RB mapping info</li><li>RB stop/continue</li></ul>                                       |             |                                          |         |
| <ul><li>RB mapping info</li><li>RB stop/continue</li><li>RB information to reconfigure</li></ul> |             | Not Present                              |         |
| <ul><li>RB mapping info</li><li>RB stop/continue</li></ul>                                       |             | Not Present<br>Not Present               |         |

| - PDCP SN Info - RR to Info - RB stapping info - RB | Information Element                | Condition | Value/remark                             | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|------------------------------------------|---------|
| RB Information to reconfigure RB Inf |                                    | Condition |                                          |         |
| RB information to reconfigure list  - RB stop/continue  - RB information to reconfigure  - RB information  - RDCP SN Info  - RDCP SN Info  - RB mapping info  - RB information  - RB mapping info  - RB stop/continue  - RB information to reconfigure  - RB information to reconfigure  - RB information to reconfigure  - RB identity  - PDCP SN info  - RCC info  - RB mapping info  - RB stop/continue  - RB stop/continue  - RB information to reconfigure  - RB identity  - PDCP SN info  - RB stop/continue  - RB information to reconfigure  - RB identity  - PDCP SN info  - RB mapping info  - RB stop/continue  - RB information to reconfigure  - RB information to rec |                                    |           |                                          |         |
| RB information to reconfigure list  - RB information to reconfigure - RB identity - PDCP Info - PDCP SN Info - RB mapping info - RB stophorotiniue - RB information to reconfigure - RB stophorotiniue - RB stophorotiniue - RB stophorotiniue - RB information to reconfigure - RB informatio | - RB mapping info                  |           | Not Present                              |         |
| El is not always required, need is MP to align with ASM.1".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |           | Not Present                              |         |
| RB information to reconfigure  - RB identity - PDCP Info - PDCP SN info - PDCP SN info - RC Info - RB stapping info - RB stappountion to reconfigure - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RC Info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RC Info - RB mapping info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RC Info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RC Info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RC Info - RB stop/continue - RB information to reconfigure - RB information to reconf | RB information to reconfigure list | A2        | TS25.331 specifies that "Although this   |         |
| RB information to reconfigure RB identity PDCP info PDCP SN info RC info RB mapping info RB mapping info RB information to reconfigure RB mapping info RB stop/continue RB mapping info RB stop/continue RB information to reconfigure RB information  |                                    |           | IE is not always required, need is MP to |         |
| - RB identity - PDCP Info - PDCP SN Info - RR propertion or the propertion of the pr |                                    |           |                                          |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to |                                    |           |                                          |         |
| - PDCP SN info     - RR mapping info     - RB stopicontinue     - RB information to reconfigure     -  |                                    |           | · -                                      |         |
| RE mapping info RB mapping info RB information to reconfigure RB i |                                    |           |                                          |         |
| RB mapping info RB stop/continue RB information to reconfigure RB identity PDCP info PDCP SN info RB mapping info RB stop/continue RB information to reconfigure RB information to reconfi |                                    |           |                                          |         |
| - RB stop/continue - RB identity - PDCP Info - PDCP SN info - RLC info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB information  |                                    |           |                                          |         |
| - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP Info - PDCP SN info - RB stop/continue - RB information to reconfigure - RB information to recon |                                    |           |                                          |         |
| - RB identity - PDCP SN info - PDCP SN info - RB mapping info - RB stop/continue - RB identity - PDCP Info - RB mapping info - RB stop/continue - RB information to reconfigure - RB informati |                                    |           |                                          |         |
| PDCP SN info PDCP SN info RLC info RB stapping info RB stop/continue RB information to reconfigure RB identity PDCP info RB stop/continue RB information to reconfigure RB identity PDCP info PDCP SN info RB stop/continue RB information to reconfigure RB information to reconfigure RB stop/continue RB stop/continue RB stop/continue RB information to reconfigure RB identity PDCP info PDCP SN info RB stop/continue RB information to reconfigure RB stop/continue RB stop/continue RB information to reconfigure RB information to recon |                                    |           |                                          |         |
| RE clinfo RB stop/continue RB stop/continue RB information to reconfigure RB information to reconfigure RB information to reconfigure RB information to reconfigure RB stop/continue RB information to reconfigure RB information to recon |                                    |           |                                          |         |
| RB mapping info RB stop/continue RB information to reconfigure RB identity PDCP Info PDCP SN info RB stop/continue RB information to reconfigure RB mapping info RB stop/continue RB mapping info RB stop/continue RB mapping info RB stop/continue RB information to reconfigure RB |                                    |           |                                          |         |
| RB stop/continue RB information to reconfigure RB identity PDCP info RB mapping info RB mapping info RB mapping info RB stop/continue RB information to reconfigure RB identity PDCP SN info RB stop/continue RB information to reconfigure RB informa | - RLC info                         |           | Not Present                              |         |
| RB stop/continue RB information to reconfigure RB identity PDCP info RB mapping info RB mapping info RB mapping info RB stop/continue RB information to reconfigure RB identity PDCP SN info RB stop/continue RB information to reconfigure RB informa |                                    |           |                                          |         |
| RB identity PDCP SN info RLC info RB mapping info RB stop/continue RB information to reconfigure RB identity PDCP SN info RB stop/continue RB information to reconfigure RB identity PDCP SN info RC RB mapping info RB stop/continue RB information to reconfigure RB information to reco | - RB stop/continue                 |           |                                          |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB mapping info - PDCP SN info - RB stop/continue - RB information to reconfigure |                                    |           |                                          |         |
| PDCP SN info RLC info RB mapping info RB stop/continue RB information to reconfigure RB informat |                                    |           |                                          |         |
| RLC info RB mapping info RB stop/continue RB information to reconfigure RB information to reconf |                                    |           |                                          |         |
| RB mapping info RB stop/continue RB information to reconfigure RB mapping info RB mapping info RB mapping info RB information to reconfigure RB mapping info RB stop/continue RB information to reconfigure RB stop/continue RB information to reconfigure RB information to rec |                                    |           |                                          |         |
| RB stop/continue RB information to reconfigure RB identity PDCP info PDCP SN info RLC info RB mapping info RB stop/continue RB identity PDCP info PDCP SN info RB stop/continue RB information to reconfigure RB identity PDCP info PDCP SN info NOT Present |                                    |           |                                          |         |
| - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB  | - RB ston/continue                 |           |                                          |         |
| RB identity PDCP info PDCP SN info RC info RB mapping info RB stop/continue RB information to reconfigure RB information to re |                                    |           |                                          |         |
| PDCP info PDCP SN info RB stop/continue RB information to reconfigure RB information to reconfigure RB stop/continue RB stop/continue RB information to reconfigure  | _                                  |           |                                          |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - RB mapping info - RB stop/continue - RB information to reconfigure  |                                    |           | -                                        |         |
| RB mapping info RB stop/continue RB information to reconfigure RB mapping info RB stop/continue RB information to reconfigure RB mapping info RB stop/continue RB information to reconfigure  RB informati |                                    |           | Not Present                              |         |
| - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP SN info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure  RB information to reconfigure - RB information to reconfigure  RB information to reconfigure - RB information to reconfigure  RB information to reconfigure - RB information to reconfigure  RB information to reconfigure - RB information to |                                    |           | Not Present                              |         |
| RB information to reconfigure  - RB identity - PDCP SN info - RB identity - RB information to reconfigure - RB information to  |                                    |           | Not Present                              |         |
| - RB identity - PDCP info - PDCP SN info - PDCP SN info - RLC info - RB mapping info - RB identity - PDCP info - PDCP SN info - RB information to reconfigure  - RB information to reconfigure  - RB information to reconfigure  RB information to reconfigure - RB i |                                    |           | Not Present                              |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB mapping info - RB mapping info - RB mapping info - RB information to reconfigure - RB information to reconfigu |                                    |           |                                          |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RB identity - PDCP SN info - RB identity - PDCP info - RB identity - RB information to reconfigure  - RB identity - PDCP SN info - RB information to reconfigure  - RB information to reconfigure  - RB information to reconfigure  RB information to reconfigure  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RDCP SN info - RDCP SN info - RLC info - RDCP SN  |                                    |           |                                          |         |
| - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB information to reconfigure - RB mapping info - RB stop/continue - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to reconfigure  - RB identity - PDCP info - RB mapping info - RB stop/continue - RB mapping info - RB stop/continue - RB information to reconfigure   RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN |                                    |           |                                          |         |
| - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RB mapping info - RB mapping info - RB mapping info - RB mapping info - RB stop/continue - RB information to reconfigure  - RB identity - PDCP info - RLC info - RB identity - PDCP info - RLC info - RB stop/continue  - RB information to reconfigure   RB identity - PDCP info - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - PDCP SN info - PDCP SN info - RB identity - PDCP info - PDCP SN info - PDCP SN info - RB identity - PDCP info - PDCP SN info - RLC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |                                          |         |
| - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - RB identity - PDCP SN info - RB stop/continue - RB identity - PDCP info - RB mapping info - RB stop/continue - RB identity - RB mapping info - RB mapping info - RB stop/continue  RB information to reconfigure ist  RB information to reconfigure  RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB identity - PDCP SN info - RCC info - PDCP SN info - RCC info - R |                                    |           |                                          |         |
| - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure  - RB identity - PDCP info - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RLC info - RB stop/continue  - RB information to reconfigure  - RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP info - PDCP info - PDCP info - PDCP SN info - RLC info - RCC info - PDCP SN info - RCC info - PDCP SN info - RCC info - RC |                                    |           |                                          |         |
| - RB identity - PDCP Info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB identity - PDCP Info - RB identity - PDCP Info - RB mapping info - RB identity - PDCP SN info - RLC info - RB mapping info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure  RB information to reconfigure  RB information to reconfigure  RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RLC info - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info  | ·                                  |           |                                          |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure  - RB information to reconfigure  RB information to reconfigure  - RB information to reconfigure - RB informa |                                    |           | l `                                      |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure  - RB identity - PDCP info - RB mapping info - RB mapping info - RB mapping info - RB stop/continue  - RB information to reconfigure  - RB information to reconfigure  RB information to reconfigure  - RB information to reconfigure  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - PDCP SN info - RLC info - RLC info - RDCP SN info - PDCP SN info - RLC |                                    |           |                                          |         |
| - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure   RB identity - PDCP info - RB identity - PDCP info - RB identity - PDCP info - PDCP SN info - RB identity - PDCP info - PDCP SN info - RB identity - PDCP SN info - RB information - RB information - RB information - RB identity - PDCP SN info - PDCP SN info - RB information - RB information - RB information - RB information - RB identity - PDCP SN info - RB identity - PDCP SN info - RB information - RB information - RB information - RB information - RB identity - PDCP SN info - RB identity - PDCP SN info - RB information - RB information - RB identity - PDCP SN info - RB identity - RB |                                    |           |                                          |         |
| - RB stop/continue - RB information to reconfigure  - RB information to reconfigure  - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - RB identity - PDCP info - RB identity - PDCP info - PDCP SN info - RLC info  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info  - RLC info  - RD information to reconfigure - RLC info  - RLC |                                    |           |                                          |         |
| - RB stop/continue - RB information to reconfigure  - RB information to reconfigure  - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - RB identity - PDCP info - RB identity - PDCP info - PDCP SN info - RLC info  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info  - RLC info  - RD information to reconfigure - RLC info  - RLC |                                    |           | Not Present                              |         |
| (This IE is needed for 12.2 kbps and 10.2 kbps)  - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info  (This IE is needed for 12.2 kbps and 10.2 kbps)  12  Not Present Not Present Not Present Not Present  - RS 331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC) - RB identity - PDCP info - PDCP SN info - RLC info  (This IE is needed for 12.2 kbps and 10.2 kbps)  12  Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - RB stop/continue                 |           |                                          |         |
| - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB information to reconfigure - RB identity - PDCP info - RB identity - PDCP SN info - RLC info  - RB information to reconfigure - RB identity - PDCP SN info - RLC info  - RB identity - PDCP SN info - RLC info  - RB identity - RLC info  - RB identity - PDCP SN info - RLC info  - RB identity - RB ide | - RB information to reconfigure    |           |                                          |         |
| - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure - RB identity - PDCP info - RB identity - PDCP info - RB identity - PDCP SN info - RLC info  12  Not Present Not Present Not Present - R3,A4,A5, A6  R4  R525.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC) 1 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |           |                                          |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure - RB identity - PDCP SN info - PDCP SN info - RLC info  Not Present Not Present Not Present - Not Present Not Present - Not Present - Not Present - R3,A4,A5, A6  R3,A4,A5, A6  R3,A4,A5, A6  R3,A4,A5, A6  R3,A4,A5, A6  R1 is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) - Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DD:1. ()                           |           | . ,                                      |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure - RB identity - PDCP SN info - PDCP SN info - RLC info  Not Present Not Present Not Present - Not Present Not Present - Not Present - Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |                                          |         |
| - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  A3,A4,A5, - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info  Not Present Not Present - Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |           |                                          |         |
| - RB mapping info - RB stop/continue  RB information to reconfigure list  A3,A4,A5, A6  RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info  Not Present Not Present Not Present (UM DCCH for RRC) 1 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |           |                                          |         |
| - RB stop/continue  RB information to reconfigure list  A3,A4,A5, A6  - RB information to reconfigure  - RB information to reconfigure  - RB identity  - PDCP info - PDCP SN info - RLC info  Not Present  A3,A4,A5, A6  IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC)  1  Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |           |                                          |         |
| RB information to reconfigure list  A3,A4,A5, A6  TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC)  1  Not Present  Not Present  Not Present  Not Present  Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                    |           |                                          |         |
| A6  IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC)  1  PDCP info  PDCP SN info  RLC info  A6  IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC)  Not Present  Not Present  Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    | A3,A4.A5. |                                          |         |
| align with ASN.1".  - RB information to reconfigure  - RB identity  - PDCP info  - PDCP SN info  - RLC info  align with ASN.1".  (UM DCCH for RRC)  1  Not Present  Not Present  Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |           |                                          |         |
| - RB information to reconfigure  - RB identity  - PDCP info  - PDCP SN info  - RLC info  (UM DCCH for RRC)  1  Not Present  Not Present  Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    | -         |                                          |         |
| - RB identity - PDCP info - PDCP SN info - RLC info  1  Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - RB information to reconfigure    |           |                                          |         |
| - PDCP SN info - RLC info  Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - RB identity                      |           | 1                                        |         |
| - RLC info Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |           |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |                                          |         |
| - אט mapping into   Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |                                          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - KB mapping into                  | I         | NOT Present                              |         |

| Information Element                                      | Condition | Value/remark                                               | Version |
|----------------------------------------------------------|-----------|------------------------------------------------------------|---------|
| - RB stop/continue                                       |           | Not Present                                                |         |
| - RB information to reconfigure                          |           | (AM DCCH for RRC)                                          |         |
| - RB identity                                            |           | 2                                                          |         |
| - PDCP info                                              |           | Not Present                                                |         |
| - PDCP SN info                                           |           | Not Present                                                |         |
| - RLC info                                               |           | Not Present                                                |         |
| - RB mapping info<br>- RB stop/continue                  |           | Not Present Not Present                                    |         |
| - RB information to reconfigure                          |           | (AM DCCH for NAS_DT High priority)                         |         |
| - RB identity                                            |           | 3                                                          |         |
| - PDCP info                                              |           | Not Present                                                |         |
| - PDCP SN info                                           |           | Not Present                                                |         |
| - RLC info                                               |           | Not Present                                                |         |
| - RB mapping info                                        |           | Not Present                                                |         |
| - RB stop/continue                                       |           | Not Present                                                |         |
| - RB information to reconfigure - RB identity            |           | (AM DCCH for NAS_DT Low priority) 4                        |         |
| - RB identity - PDCP info                                |           | Not Present                                                |         |
| - PDCP SN info                                           |           | Not Present                                                |         |
| - RLC info                                               |           | Not Present                                                |         |
| - RB mapping info                                        |           | Not Present                                                |         |
| - RB stop/continue                                       |           | Not Present                                                |         |
| - RB information to reconfigure                          |           | (AM DTCH)                                                  |         |
| - RB identity                                            |           | 20                                                         |         |
| - PDCP info                                              |           | Not Present                                                |         |
| - PDCP SN info                                           |           | Not Present                                                |         |
| - RLC info<br>- RB mapping info                          |           | Not Present Not Present                                    |         |
| - RB stop/continue                                       |           | Not Present                                                |         |
| RB information to be affected                            | A1, A2,   | Not Present                                                |         |
|                                                          | A3,A4,A5, | 1.00.1.1000.11                                             |         |
|                                                          | A6        |                                                            |         |
| UL Transport channel information for all                 | A1, A2,   | Not Present                                                |         |
| transport channels                                       | A5,A6     |                                                            |         |
|                                                          |           |                                                            |         |
| UL Transport channel information for all                 | A3, A4    |                                                            |         |
| transport channels                                       | 7.0, 7.4  |                                                            |         |
| - PRACH TFCS                                             |           | Not Present                                                |         |
| - CHOICE mode                                            |           | FDD                                                        |         |
| - TFC subset                                             |           | Not Present                                                |         |
| - UL DCH TFCS                                            |           |                                                            |         |
| - CHOICE TFCI signalling                                 |           | Normal                                                     |         |
| - TFCI Field 1 information                               |           | Complete reconfiguration                                   |         |
| - CHOICE TFCS representation - TFCS complete reconfigure |           | Complete reconfiguration                                   |         |
| information                                              |           |                                                            |         |
| - CHOICE CTFC Size                                       |           | Number of bits used must be enough to                      |         |
|                                                          |           | cover all combinations of CTFC from                        |         |
|                                                          |           | TS34.108 clause 6.10.2.4 Parameter                         |         |
| 075011                                                   |           | Set.                                                       |         |
| - CTFC information                                       |           | This IE is repeated for TFC numbers                        |         |
|                                                          |           | and reference to TS34.108 clause<br>6.10.2.4 Parameter Set |         |
| - CTFC                                                   |           | Reference to TS34.108 clause 6.10.2.4                      |         |
| - 011 0                                                  |           | Parameter Set                                              |         |
| - Power offset information                               |           |                                                            |         |
| - CHOICE Gain Factors                                    |           | Computed Gain Factors(The last TFC                         |         |
|                                                          |           | is set to Signalled Gain Factors)                          |         |
| - Gain factor βc                                         |           | 11 (below 64 kbps)                                         |         |
|                                                          |           | 9 (higher than 64 kbps)                                    |         |
|                                                          |           | (Not Present if the CHOICE Gain                            |         |
|                                                          |           | Factors is set to ComputedGain                             |         |
| - Gain factor βd                                         |           | Factors)<br>15                                             |         |
| Guill lactor pu                                          |           | (Not Present if the CHOICE Gain                            |         |
|                                                          |           | Factors is set to ComputedGain                             |         |
|                                                          | I.        |                                                            |         |

| Information Element                                                    | Condition                | Value/remark                                    | Version  |
|------------------------------------------------------------------------|--------------------------|-------------------------------------------------|----------|
|                                                                        |                          | Factors)                                        |          |
| - Reference TFC ID                                                     |                          | 0                                               |          |
| - CHOICE mode                                                          |                          | FDD                                             |          |
| - Power offset P p-m                                                   | A4 A0 A0                 | Not Present                                     |          |
| Deleted UL TrCH information                                            | A1, A2, A3,<br>A4, A5,A6 | Not Present                                     |          |
| Added or Reconfigured UL TrCH information                              | A1, A2,                  | Not Present                                     |          |
| Added of Reconfigured OE Troff Information                             | A5,A6                    | Not i resent                                    |          |
| Added or Reconfigured UL TrCH information                              | A4                       | 2 TrCHs(DCH for DCCH and DCH for                |          |
|                                                                        |                          | DTCH)                                           |          |
| <ul> <li>Uplink transport channel type</li> </ul>                      |                          | DCH                                             |          |
| - UL Transport channel identity                                        |                          | 5                                               |          |
| - TFS                                                                  |                          | Dedicated transport shappels                    |          |
| - CHOICE Transport channel type - Dynamic Transport format information |                          | Dedicated transport channels                    |          |
| - RLC Size                                                             |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| <ul> <li>Number of TBs and TTI List</li> </ul>                         |                          | (This IE is repeated for TFI number.)           |          |
| - Transmission Time Interval                                           |                          | Not Present                                     |          |
| - Number of Transport blocks                                           |                          | Reference to TS34.108 clause 6.10               |          |
| - CHOICE Logical Channel list                                          |                          | Parameter Set                                   |          |
| - Semi-static Transport Format information                             |                          |                                                 |          |
| - Transmission time interval                                           |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| - Type of channel coding                                               |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| - Coding Rate                                                          |                          | Reference to TS34.108 clause 6.10               |          |
| - Rate matching attribute                                              |                          | Parameter Set Reference to TS34.108 clause 6.10 |          |
| - Nate matering attribute                                              |                          | Parameter Set                                   |          |
| - CRC size                                                             |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| <ul> <li>Uplink transport channel type</li> </ul>                      |                          | DCH                                             |          |
| - UL Transport channel identity                                        |                          | 1                                               |          |
| - TFS - CHOICE Transport channel type                                  |                          | Dedicated transport shappels                    |          |
| - Onorce Transport channel type - Dynamic Transport format information |                          | Dedicated transport channels                    |          |
| - RLC Size                                                             |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| <ul> <li>Number of TBs and TTI List</li> </ul>                         |                          | (This IE is repeated for TFI number.)           |          |
| - Transmission Time Interval                                           |                          | Not Present                                     |          |
| - Number of Transport blocks                                           |                          | Reference to TS34.108 clause 6.10               |          |
| - CHOICE Logical Channel list                                          |                          | Parameter Set                                   |          |
| - Semi-static Transport Format information                             |                          | , w                                             |          |
| - Transmission time interval                                           |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| - Type of channel coding                                               |                          | Reference to TS34.108 clause 6.10               |          |
| Coding Date                                                            |                          | Parameter Set                                   |          |
| - Coding Rate                                                          |                          | Reference to TS34.108 clause 6.10 Parameter Set |          |
| - Rate matching attribute                                              |                          | Reference to TS34.108 clause 6.10               |          |
| . tataata iii g attiibata                                              |                          | Parameter Set                                   |          |
| - CRC size                                                             |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| Added or Reconfigured UL TrCH information                              | A3                       | (DCH for DTCH)                                  |          |
| - Uplink transport channel type                                        |                          | DCH                                             |          |
| - UL Transport channel identity - TFS                                  |                          | 1                                               |          |
| - CHOICE Transport channel type                                        |                          | Dedicated transport channels                    |          |
| - Dynamic Transport format information                                 |                          |                                                 |          |
| - RLC Size                                                             |                          | Reference to TS34.108 clause 6.10               |          |
|                                                                        |                          | Parameter Set                                   |          |
| - Number of TBs and TTI List                                           |                          | (This IE is repeated for TFI number.)           |          |
| - Transmission Time Interval                                           |                          | Not Present                                     |          |
| - Number of Transport blocks                                           | 1                        | Reference to TS34.108 clause 6.10               | <u> </u> |

| Information Element                                                     | Condition   | Value/remark                                                              | Version |
|-------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------|---------|
|                                                                         |             | Parameter Set                                                             |         |
| - CHOICE Logical Channel list                                           |             | All                                                                       |         |
| - Semi-static Transport Format information - Transmission time interval |             | Peteronee to TS24 109 eleves 6 10                                         |         |
| - Hansmission time interval                                             |             | Reference to TS34.108 clause 6.10 Parameter Set                           |         |
| - Type of channel coding                                                |             | Reference to TS34.108 clause 6.10                                         |         |
| J1 0                                                                    |             | Parameter Set                                                             |         |
| - Coding Rate                                                           |             | Reference to TS34.108 clause 6.10                                         |         |
| Data mataking attaihuda                                                 |             | Parameter Set                                                             |         |
| - Rate matching attribute                                               |             | Reference to TS34.108 clause 6.10 Parameter Set                           |         |
| - CRC size                                                              |             | Reference to TS34.108 clause 6.10                                         |         |
| 0110 0120                                                               |             | Parameter Set                                                             |         |
| CHOICE mode                                                             | A1,A2,A3,   | FDD                                                                       |         |
| 0.001                                                                   | A4,A5,A6    |                                                                           |         |
| - CPCH set ID                                                           |             | Not Present                                                               |         |
| - Added or Reconfigured TrCH information for DRAC list                  |             | Not Present                                                               |         |
| DL Transport channel information common for                             | A1, A2, A5, | Not Present                                                               |         |
| all transport channel                                                   | A6          |                                                                           |         |
| DL Transport channel information common for                             | A3,A4       |                                                                           |         |
| all transport channel                                                   |             |                                                                           |         |
| - SCCPCH TFCS                                                           |             | Not Present                                                               |         |
| - CHOICE DI parameters                                                  |             | FDD<br>Explicit                                                           |         |
| - CHOICE DL parameters - DL DCH TFCS                                    |             | Explicit                                                                  |         |
| - CHOICE TFCI Signalling                                                |             | Normal                                                                    |         |
| - TFCI Field 1 Information                                              |             |                                                                           |         |
| <ul> <li>CHOICE TFCS representation</li> </ul>                          |             | Complete reconfiguration                                                  |         |
| - TFCS complete reconfigure                                             |             |                                                                           |         |
| - CHOICE CTFC Size                                                      |             | Number of bits used must be enough to cover all combinations of CTFC from |         |
|                                                                         |             | clause TS34.108 clause 6.10.2.4                                           |         |
|                                                                         |             | Parameter Set.                                                            |         |
| - CTFC information                                                      |             | This IE is repeated for TFC numbers                                       |         |
|                                                                         |             | and reference to TS34.108 clause                                          |         |
| 00                                                                      |             | 6.10.2.4                                                                  |         |
| - CTFC                                                                  |             | Reference to TS34.108 clause 6.10.2.4                                     |         |
| - Power offset information                                              |             | Parameter Set Not Present                                                 |         |
| Deleted DL TrCH information                                             | A1, A2, A3, | Not Present                                                               |         |
|                                                                         | A4, A5,A6   |                                                                           |         |
| Added or Reconfigured DL TrCH information                               | A1, A2, A5, | Not Present                                                               |         |
| All I B G ISLTON                                                        | A6          | O T OU (DOUG DOOL DOOL)                                                   |         |
| Added or Reconfigured DL TrCH information                               | A4          | 2 TrCHs(DCH for DCCH and DCH for                                          |         |
| - Downlink transport channel type                                       |             | DTCH)                                                                     |         |
| - DL Transport channel identity                                         |             | 10                                                                        |         |
| - CHOICE DL parameters                                                  |             | Same as UL                                                                |         |
| - Uplink transport channel type                                         |             | DCH                                                                       |         |
| - UL TrCH identity                                                      |             | 5                                                                         |         |
| - DCH quality target                                                    |             | N. B.                                                                     |         |
| - BLER Quality value                                                    |             | Not Present                                                               |         |
| Downlink transport channel type     DL Transport channel identity       |             | DCH<br>6                                                                  |         |
| - CHOICE DL parameters                                                  |             | Explicit                                                                  |         |
| - TFS                                                                   |             |                                                                           |         |
| - CHOICE Transport channel type                                         |             | Dedicated transport channel                                               |         |
| <ul> <li>Dynamic transport format information</li> </ul>                |             | •                                                                         |         |
| - RLC Size                                                              |             | Reference to TS34.108 clause 6.10                                         |         |
| Number of TDe and TTU ist                                               |             | Parameter Set                                                             |         |
| Number of TBs and TTI List     Dynamic transport format information     |             | (This IE is repeated for TFI number.)                                     |         |
| - Transmission Time Interval                                            |             | Not Present                                                               |         |
| - Number of Transport blocks                                            |             | Reference to TS34.108 clause 6.10                                         |         |
| ·                                                                       |             | Parameter Set                                                             |         |
| - Semi-static Transport Format information                              |             |                                                                           |         |

| Information Element                                                         | Condition               | Value/remark                                    | Version |
|-----------------------------------------------------------------------------|-------------------------|-------------------------------------------------|---------|
| - Transmission time interval                                                |                         | Reference to TS34.108 clause 6.10               |         |
| _ ,,                                                                        |                         | Parameter Set                                   |         |
| - Type of channel coding                                                    |                         | Reference to TS34.108 clause 6.10               |         |
| - Coding Rate                                                               |                         | Parameter Set Reference to TS34.108 clause 6.10 |         |
| - Rate matching attribute                                                   |                         | Parameter Set Reference to TS34.108 clause 6.10 |         |
| - CRC size                                                                  |                         | Parameter Set Reference to TS34.108 clause 6.10 |         |
| - DCH quality target                                                        |                         | Parameter Set                                   |         |
| - BLER Quality value                                                        | A3                      | -2.0                                            |         |
| Added or Reconfigured DL TrCH information - Downlink transport channel type | AS                      | DCH                                             |         |
| DL Transport channel identity                                               |                         | 6                                               |         |
| - CHOICE DL parameters                                                      |                         | Explicit                                        |         |
| - TFS                                                                       |                         | Explicit                                        |         |
| - CHOICE Transport channel type                                             |                         | Dedicated transport channel                     |         |
| - Dynamic transport format information                                      |                         |                                                 |         |
| - RLC Size                                                                  |                         | Reference to TS34.108 clause 6.10               |         |
|                                                                             |                         | Parameter Set                                   |         |
| <ul> <li>Number of TBs and TTI List</li> </ul>                              |                         | (This IE is repeated for TFI number.)           |         |
| <ul> <li>Dynamic transport format information</li> </ul>                    |                         |                                                 |         |
| - Transmission Time Interval                                                |                         | Not Present                                     |         |
| <ul> <li>Number of Transport blocks</li> </ul>                              |                         | Reference to TS34.108 clause 6.10               |         |
|                                                                             |                         | Parameter Set                                   |         |
| - Semi-static Transport Format information                                  |                         |                                                 |         |
| - Transmission time interval                                                |                         | Reference to TS34.108 clause 6.10               |         |
|                                                                             |                         | Parameter Set                                   |         |
| <ul> <li>Type of channel coding</li> </ul>                                  |                         | Reference to TS34.108 clause 6.10               |         |
|                                                                             |                         | Parameter Set                                   |         |
| - Coding Rate                                                               |                         | Reference to TS34.108 clause 6.10               |         |
| Pata matching attribute                                                     |                         | Parameter Set                                   |         |
| - Rate matching attribute                                                   |                         | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - CRC size                                                                  |                         | Reference to TS34.108 clause 6.10               |         |
| - 0100 3126                                                                 |                         | Parameter Set                                   |         |
| - DCH quality target                                                        |                         | T didinotor Got                                 |         |
| - BLER Quality value                                                        |                         | -2.0                                            |         |
| Preconfiguration                                                            | A1,A2,A3,               | [FFS]                                           | REL-5   |
|                                                                             | A4,A5,A6                | []                                              |         |
| Frequency info                                                              | A1,A2,A3,               |                                                 |         |
|                                                                             | A4,A5                   |                                                 |         |
| - UARFCN uplink (Nu)                                                        |                         | Reference to clause 5.1 Test                    |         |
| HADEON I ALD                                                                |                         | frequencies                                     |         |
| - UARFCN downlink (Nd)                                                      |                         | Reference to clause 5.1 Test                    |         |
| Eraguanav inta                                                              | ٨6                      | frequencies Not Propert                         |         |
| Frequency info  Maximum allowed UL TX power                                 | A6<br>A1,A2,A3,         | Not Present<br>33dBm                            |         |
| waximum allowed OL TA power                                                 | A1,A2,A3,<br>A4,A5,A6   | SOUDIII                                         |         |
| CHOICE channel requirement                                                  | A4,A5,A6<br>A1, A2, A3, | Uplink DPCH info                                |         |
| OF TOTOL CHAINET TEQUITETTETT                                               | A1, A2, A3,<br>A4       | Opinik Di Ori ililo                             |         |
| -Uplink DPCH power control info                                             |                         |                                                 |         |
|                                                                             |                         |                                                 |         |
| - DPCCH power offset                                                        |                         | -80dB (i.e. ASN.1 IE value of -40)              |         |
| - PC Preamble                                                               |                         | 1 frame                                         |         |
| - SRB delay                                                                 |                         | 7 frames                                        |         |
| - Power Control Algorithm                                                   |                         | Algorithm1                                      |         |
| - TPC step size                                                             |                         | 1dB                                             | 55      |
| - $\Delta_{ACK}$                                                            |                         | Not Present                                     | REL-5   |
| - $\Delta_{NACK}$                                                           |                         | Not Present                                     | REL-5   |
| - Ack-Nack repetition factor                                                |                         | Not Present                                     | REL-5   |
| - Scrambling code type                                                      |                         | Long                                            |         |
| - Scrambling code number                                                    |                         | 0 (0 to 16777215)                               |         |
| - Number of DPDCH                                                           |                         | Not Present(1)                                  |         |
| - spreading factor                                                          |                         | Reference to TS34.108 clause 6.10               |         |
|                                                                             |                         | Parameter Set                                   |         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition             | Value/remark                                                  | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------|---------|
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Parameter Set                                                 |         |
| <ul> <li>Number of FBI bit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Parameter Set                                                 |         |
| - Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Reference to TS34.108 clause 6.10                             |         |
| 0110105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15.10                 | Parameter Set                                                 |         |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A5, A6                | Not Present                                                   |         |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A1,A2,A3,<br>A4,A5,A6 | FDD                                                           |         |
| - Downlink PDSCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A4,A5,A6              | Not Present                                                   |         |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1, A2, A3,           | Not Present                                                   | REL-5   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4, A5, A6            |                                                               | 0       |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A5, A6                | Not Present                                                   |         |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1, A2, A3            |                                                               |         |
| <ul> <li>Downlink DPCH info common for all RL</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                                               |         |
| - Timing indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Maintain                                                      |         |
| - CFN-targetSFN frame offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Not Present                                                   |         |
| - Downlink DPCH power control information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                                                               |         |
| - DPC mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | 0 (single)                                                    |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | FDD                                                           |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | 0                                                             |         |
| <ul> <li>DL rate matching restriction information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Not Present                                                   |         |
| <ul> <li>Spreading factor</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Parameter Set                                                 |         |
| - Fixed or Flexible Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Reference to TS34.108 clause 6.10                             |         |
| - IT OF EXISTENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | Parameter Set                                                 |         |
| - CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Parameter Set                                                 |         |
| <ul> <li>DPCH compressed mode info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                   |         |
| - TX Diversity mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | None                                                          |         |
| - SSDT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Not Present                                                   |         |
| Default DPCH Offset Value     MAC-hs reset indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Not Present Not Present                                       | REL-5   |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4                    | Not Fresent                                                   | KEL-3   |
| - Downlink DPCH info common for all RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Λ4                    |                                                               |         |
| - Timing indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Initialise                                                    |         |
| - CFN-targetSFN frame offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Not Present                                                   |         |
| <ul> <li>Downlink DPCH power control</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                               |         |
| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                               |         |
| - DPC mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       | 0 (single)                                                    |         |
| - CHOICE mode<br>- Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | FDD<br>0                                                      |         |
| - Power offset P <sub>Pilot-DPDCH</sub> - DL rate matching restriction information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Not Present                                                   |         |
| - Spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Reference to TS34.108 clause 6.10                             |         |
| -1 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Parameter Set                                                 |         |
| - Fixed or Flexible Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Reference to TS34.108 clause 6.10                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Parameter Set                                                 |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Reference to TS34.108 clause 6.10                             |         |
| CHOICE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Parameter Set                                                 |         |
| - CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| - DPCH compressed mode info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Not Present                                                   |         |
| - TX Diversity mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | None                                                          |         |
| - SSDT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Not Present                                                   |         |
| - Default DPCH Offset Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Present Arbitrary set to value 0306688                        |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | by step of 512                                                |         |
| - MAC-hs reset indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | Not Present                                                   | REL-5   |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1, A2, A3            |                                                               |         |
| Description to the former of the former of the first of the former of th | 1                     |                                                               |         |
| -Downlink information for each radio link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | EDD                                                           |         |
| - Choice mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | FDD                                                           |         |
| <ul><li>Choice mode</li><li>Primary CPICH info</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                                               |         |
| - Choice mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | FDD  Ref. to the Default setting in TS34.108 clause 6.1 (FDD) |         |

| Information Element                                                | Condition | Value/remark                            | Version |
|--------------------------------------------------------------------|-----------|-----------------------------------------|---------|
| - PDSCH code mapping                                               |           | Not Present                             |         |
| <ul> <li>Serving HS-DSCH radio link indicator</li> </ul>           |           | FALSE                                   | REL-5   |
| <ul> <li>Downlink DPCH info for each RL</li> </ul>                 |           |                                         |         |
| <ul> <li>Primary CPICH usage for channel</li> </ul>                |           | Primary CPICH may be used               |         |
| estimation                                                         |           |                                         |         |
| - DPCH frame offset                                                |           | Set to value Default DPCH Offset Value  |         |
|                                                                    |           | (as currently stored in SS) mod 38400   |         |
| - Secondary CPICH info                                             |           | Not Present                             |         |
| - Secondary scrambling code                                        |           |                                         |         |
| - channelisation code                                              |           |                                         |         |
| - DL channelisation code                                           |           |                                         |         |
| - Secondary scrambling code                                        |           | 2                                       |         |
| - Spreading factor                                                 |           | Reference to TS34.108 clause 6.10       |         |
| oproduming ractor                                                  |           | Parameter Set                           |         |
| - Code number                                                      |           | 0                                       |         |
| - Scrambling code change                                           |           | No change                               |         |
| - TPC combination index                                            |           | 0                                       |         |
| - SSDT Cell Identity                                               |           | Not Present                             |         |
| Closed loop timing adjustment mode                                 |           | Not Present                             |         |
| - Closed loop timing adjustment mode - SCCPCH information for FACH |           |                                         |         |
|                                                                    | 1 A 4     | Not Present                             |         |
| Downlink information per radio link list                           | A4        |                                         |         |
| -Downlink information for each radio link                          |           | 500                                     |         |
| - Choice mode                                                      |           | FDD                                     |         |
| - Primary CPICH info                                               |           |                                         |         |
| <ul> <li>Primary scrambling code</li> </ul>                        |           | Ref. to the Default setting in TS34.108 |         |
|                                                                    |           | clause 6.1 (FDD)                        |         |
| <ul> <li>PDSCH with SHO DCH info</li> </ul>                        |           | Not Present                             |         |
| - PDSCH code mapping                                               |           | Not Present                             |         |
| <ul> <li>Serving HS-DSCH radio link indicator</li> </ul>           |           | FALSE                                   | REL-5   |
| <ul> <li>Downlink DPCH info for each RL</li> </ul>                 |           |                                         |         |
| <ul> <li>Primary CPICH usage for channel</li> </ul>                |           | Primary CPICH may be used               |         |
| estimation                                                         |           |                                         |         |
| - DPCH frame offset                                                |           | Set to value : Default DPCH Offset      |         |
|                                                                    |           | Value mod 38400                         |         |
| - Secondary CPICH info                                             |           | Not Present                             |         |
| - Secondary scrambling code                                        |           |                                         |         |
| - channelisation code                                              |           |                                         |         |
| - DL channelisation code                                           |           |                                         |         |
| - Secondary scrambling code                                        |           | 2                                       |         |
| - Spreading factor                                                 |           | Reference to TS34.108 clause 6.10       |         |
| Sproduing ractor                                                   |           | Parameter Set                           |         |
| - Code number                                                      |           | 0                                       |         |
| - Scrambling code change                                           |           | No change                               |         |
| - TPC combination index                                            |           | 0                                       |         |
| - SSDT Cell Identity                                               |           | Not Present                             |         |
| Closed loop timing adjustment mode                                 |           | Not Present                             |         |
| - SCCPCH information for FACH                                      |           | Not Present<br>Not Present              |         |
|                                                                    | Λ.Ε.      | NOT LIESEUR                             |         |
| - Downlink information for each radio link                         | A5        | EDD                                     |         |
| - Choice mode                                                      |           | FDD                                     |         |
| - Primary CPICH info                                               |           | Def to the Default action in TOO4 400   |         |
| - Primary scrambling code                                          |           | Ref. to the Default setting in TS34.108 |         |
| PROOFF WE ALLO DOWN A                                              |           | clause 6.1 (FDD)                        |         |
| - PDSCH with SHO DCH info                                          |           | Not Present                             |         |
| - PDSCH code mapping                                               |           | Not Present                             |         |
| <ul> <li>Serving HS-DSCH radio link indicator</li> </ul>           |           | FALSE                                   | REL-5   |
| <ul> <li>Downlink DPCH info for each RL</li> </ul>                 |           | Not present                             |         |
| - SCCPCH Information for FACH                                      |           | Not Present                             |         |
| - Downlink information for each radio link                         | A6        | Not Present                             |         |

|    | Condition | Explanation                                                 |
|----|-----------|-------------------------------------------------------------|
| A1 |           | This IE need for "Non speech in CS"                         |
| A2 |           | This IE need for "Speech in CS"                             |
| А3 |           | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4 |           | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5 |           | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6 |           | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

## Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

| Information Element                                               | Value/remark                                                                                                                                                                                         |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                      |                                                                                                                                                                                                      |
| RRC transaction identitifer                                       | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.                                                                                  |
| Integrity check info                                              |                                                                                                                                                                                                      |
| - Message authentication code                                     | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                     | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                     | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded List | Not checked                                                                                                                                                                                          |

## Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message                                                                                |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronisation info                | Not present                                                                                                                                                                                          |

Contents of RADIO BEARER RELEASE message: AM or UM

| Information Element                                   |                       | Value/remark                                                                 | Version |
|-------------------------------------------------------|-----------------------|------------------------------------------------------------------------------|---------|
| Message Type                                          | A1, A2, A3,           |                                                                              |         |
|                                                       | A4, A5, A6,<br>A7, A8 |                                                                              |         |
|                                                       | , A9                  |                                                                              | REL-5   |
| RRC transaction identifier                            |                       | Arbitrarily selects an integer between 0                                     |         |
| Titto ilanoadion lasmino.                             |                       | and 3                                                                        |         |
| Integrity check info                                  |                       |                                                                              |         |
| - message authentication code                         |                       | SS calculates the value of MAC-I for this message and writes to this IE. The |         |
|                                                       |                       | first/ leftmost bit of the bit string                                        |         |
|                                                       |                       | contains the most significant bit of the                                     |         |
|                                                       |                       | MAC-I.                                                                       |         |
| - RRC message sequence number                         |                       | SS provides the value of this IE, from its internal counter.                 |         |
| Integrity protection mode info                        |                       | Not Present                                                                  |         |
| Ciphering mode info                                   |                       | Not Present                                                                  |         |
| Activation time                                       | A1, A2, A3,           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                             |         |
|                                                       | A7, A8<br>, A9        |                                                                              | REL-5   |
| Activation time                                       | A4, A5, A6            | Not Present                                                                  | 11220   |
| New U-RNTI                                            | ·                     | Not Present                                                                  |         |
| New C-RNTI                                            | A1,A2,A3,             | Not Present                                                                  |         |
|                                                       | A4<br>, A9            |                                                                              | REL-5   |
| New C-RNTI                                            | A5, A6, A7,           | '1010 1010 1010 1010'                                                        | INEE 0  |
|                                                       | A8                    |                                                                              |         |
| New DSCH-RNTI                                         | A1, A2, A3,           | Not Present                                                                  |         |
|                                                       | A4, A5, A6,<br>A7, A8 |                                                                              |         |
|                                                       | , A9                  |                                                                              | REL-5   |
| RRC State indicator                                   | A1,A2, A3,            | CELL_DCH                                                                     |         |
| Titto diale indicator                                 | A4                    | OLLE_BOTT                                                                    |         |
|                                                       | , A9                  |                                                                              | REL-5   |
| RRC State indicator                                   | A5, A6, A7,<br>A8     | CELL_FACH                                                                    |         |
| UTRAN DRX cycle length coefficient                    | A1,A2,A3,             | Not Present                                                                  |         |
| , ,                                                   | A4,A5,A6,             |                                                                              |         |
|                                                       | A7, A8                |                                                                              | DEL 6   |
|                                                       | , A9                  |                                                                              | REL-5   |
| CN information info                                   |                       | Not Present                                                                  |         |
| Signalling Connection release indication URA identity |                       | Not Present Not Present                                                      |         |
| RAB information to reconfigure list                   |                       | Not Present                                                                  |         |
| RB information to release                             | A1,A2, A7,            |                                                                              |         |
| PR identity                                           | A8                    | 10                                                                           |         |
| - RB identity  RB information to release              | A2, A8                | 10                                                                           |         |
| - RB identity                                         | ·                     | 11                                                                           |         |
| RB information to release                             | A2, A8                |                                                                              |         |
| - RB identity RB information to release               | A3, A4, A5,           | 12                                                                           |         |
| No information to release                             | A6, A4, A3,           |                                                                              |         |
| - RB identity                                         |                       | 20                                                                           | DEL -   |
| RB information to release - RB identity               | A9                    | 23                                                                           | REL-5   |
| RB information to be affected                         | A1,A2,                | Not Present                                                                  |         |
|                                                       | A3,A4,A5,             |                                                                              |         |
|                                                       | A6, A7, A8            |                                                                              | DEL 5   |
|                                                       | , A9                  |                                                                              | REL-5   |
| Downlink counter synchronisation info                 | A1,A2,A3,             | Not Present                                                                  |         |
| . <b>,</b>                                            | A4,A5,A6,             |                                                                              |         |
|                                                       | A7, A8                |                                                                              | DEL 5   |
|                                                       | , A9                  |                                                                              | REL-5   |

| Information Element                                          |                        | Value/remark                          | Version |
|--------------------------------------------------------------|------------------------|---------------------------------------|---------|
| UL Transport channel information for all                     | A1, A2, A3,            | TFCS reconfigured to fit the new      |         |
| transport channels                                           | A4, A5, A6,            | transport channel configuration.      |         |
|                                                              | A7, A8                 |                                       |         |
|                                                              | , A9                   |                                       | REL-5   |
| Deleted UL TrCH Information                                  | A1,A2, A3,             |                                       |         |
|                                                              | A4, A5, A6,            |                                       |         |
|                                                              | A7, A8                 |                                       |         |
|                                                              | , A9                   |                                       | REL-5   |
|                                                              | '                      |                                       |         |
| - Uplink transport channel type                              |                        | DCH                                   |         |
| - Transport channel identity                                 |                        | 1                                     |         |
| Deleted UL TrCH Information                                  | A2, A8                 |                                       |         |
| - Uplink transport channel type                              |                        | DCH                                   |         |
| - Transport channel identity                                 |                        | 2                                     |         |
| Deleted UL TrCH Information                                  | A2, A8                 | BOLL                                  |         |
| - Uplink transport channel type                              |                        | DCH                                   |         |
| - Transport channel identity                                 | <b>_</b>               | 3                                     |         |
| Added or Reconfigured UL TrCH information                    | A5, A6, A7,            | Not Present                           |         |
| A.I. I. B. C. IIII TOIL: C. C.                               | A8                     | T 011 (D011( D0011)                   |         |
| Added or Reconfigured UL TrCH information                    | A1, A2, A3,            | TrCHs(DCH for DCCH)                   |         |
|                                                              | A4                     |                                       | ם בי ב  |
| II P I d                                                     | , A9                   | DOLL.                                 | REL-5   |
| - Uplink transport channel type                              | 1                      | DCH                                   |         |
| - UL Transport channel identity                              | 1                      | 5                                     |         |
| - TFS                                                        |                        |                                       |         |
| - CHOICE Transport channel type                              |                        | Dedicated transport channels          |         |
| <ul> <li>Dynamic Transport format information</li> </ul>     |                        |                                       |         |
| - RLC Size                                                   |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| <ul> <li>Number of TBs and TTI List</li> </ul>               |                        | (This IE is repeated for TFI number.) |         |
| <ul> <li>Transmission Time Interval</li> </ul>               |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| <ul> <li>Number of Transport blocks</li> </ul>               |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| - CHOICE Logical Channel list                                |                        | All                                   |         |
| <ul> <li>Semi-static Transport Format information</li> </ul> |                        |                                       |         |
| <ul> <li>Transmission time interval</li> </ul>               |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| <ul> <li>Type of channel coding</li> </ul>                   |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| - Coding Rate                                                |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| <ul> <li>Rate matching attribute</li> </ul>                  |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              |                        | signalling radio bearer)              |         |
| - CRC size                                                   |                        | According to TS34.108 clause          |         |
|                                                              |                        | 6.10.2.4.1.3 (standalone 13.6 kbps    |         |
|                                                              | 1                      | signalling radio bearer)              |         |
| DL Transport channel information for all                     | A1, A2, A3,            | TFCS reconfigured to fit the new      |         |
| transport channels                                           | A4, A5, A6,            | transport channel configuration.      |         |
|                                                              | A7, A8                 |                                       |         |
|                                                              | , A9                   |                                       | REL-5   |
| Deleted DL TrCH Information                                  | A1, A2, A3,            |                                       |         |
| Deleted DE TIOTI IIIIUIIIIation                              | A1, A2, A3,<br>A4, A5, |                                       |         |
|                                                              | A4, A5,<br>A6, A7, A8  |                                       |         |
|                                                              | , A9                   |                                       | REL-5   |
|                                                              | , , , , ,              |                                       | INEL-U  |
| - Downlink transport channel type                            |                        | DCH                                   |         |
| - Transport channel identity                                 |                        | DCH<br>  6                            |         |
| - mansport channel luchtity                                  |                        | U                                     | 1       |

| Information Element                                                      |                                          | Value/remark                          | Version |
|--------------------------------------------------------------------------|------------------------------------------|---------------------------------------|---------|
| Deleted DL TrCH Information                                              | A2, A8                                   |                                       |         |
| - Downlink transport channel type                                        | , , , , , ,                              | DCH                                   |         |
| - Transport channel identity                                             |                                          | 7                                     |         |
| Deleted DL TrCH Information                                              | A2, A8                                   | •                                     |         |
| - Downlink transport channel type                                        | 7.2,7.0                                  | DCH                                   |         |
| - Transport channel identity                                             |                                          | 8                                     |         |
| Deleted DL TrCH Information                                              | A9                                       |                                       | REL-5   |
| - Downlink transport channel type                                        | 7.0                                      | HS-DSCH                               | INCL 5  |
| - DL HS-DSCH MAC-d flow identity                                         |                                          | 0                                     |         |
| Added or Reconfigured DL TrCH information                                | A5, A6, A7,                              | Not Present                           |         |
| Added of Neconinguled BE Troff information                               | A8                                       | Not i lesent                          |         |
| Added or Reconfigured DL TrCH information                                | A1, A2, A3,                              | 1 TrCHs(DCH for DCCH)                 |         |
|                                                                          | A4                                       |                                       |         |
|                                                                          | , A9                                     |                                       | REL-5   |
| - Downlink transport channel type                                        | , -                                      | DCH                                   |         |
| - DL Transport channel identity                                          |                                          | 10                                    |         |
| - CHOICE DL parameters                                                   |                                          | Same as UL                            |         |
| - Uplink transport channel type                                          |                                          | DCH                                   |         |
|                                                                          |                                          | 5                                     |         |
| - UL TrCH identity                                                       |                                          | 5                                     |         |
| - DCH quality target                                                     | 1                                        | Not Dropped                           |         |
| - BLER Quality value                                                     | 111000                                   | Not Present                           |         |
| Frequency info                                                           | A1,A2,A3,                                |                                       |         |
|                                                                          | A4,A5, A7,                               |                                       |         |
|                                                                          | A8                                       |                                       |         |
|                                                                          | , A9                                     |                                       | REL-5   |
| - UARFCN uplink (Nu)                                                     |                                          | Reference to clause 5.1 Test          |         |
| Ortici Oliv apiilik (14a)                                                |                                          | frequencies                           |         |
| - UARFCN downlink (Nd)                                                   |                                          | Reference to clause 5.1 Test          |         |
| or art ort downlink (rtd)                                                |                                          | frequencies                           |         |
| Maximum allowed UL TX power                                              |                                          | 33dBm                                 |         |
| Frequency info                                                           | A6                                       | Not Present                           |         |
| CHOICE channel requirement                                               | A5, A6, A7,                              | Not Present                           |         |
| Of IOIOE charmer requirement                                             | A8                                       | Not i resent                          |         |
| CHOICE channel requirement                                               | A1,A2,A3,                                | Uplink DPCH info                      |         |
| OTTOTOL OTTOTAL TOQUITORION                                              | A4                                       | Opinik Br Grriing                     |         |
|                                                                          | , A9                                     |                                       | REL-5   |
| - Uplink DPCH power control info                                         | , , , , ,                                |                                       |         |
| - DPCCH power offset                                                     |                                          | -80dB (i.e. ASN.1 IE value of -40)    |         |
| - PC Preamble                                                            |                                          | 1 frame                               |         |
| - SRB delay                                                              |                                          | 7 frames                              |         |
| - Power Control Algorithm                                                |                                          | Algorithm1                            |         |
| - Aack                                                                   |                                          | Not Present                           | REL-5   |
| - Anack                                                                  |                                          | Not Present                           | REL-5   |
| - Ack-Nack repetition factor                                             |                                          | Not Present                           | REL-5   |
| - TPC step size                                                          |                                          | 1dB                                   | IXLL-3  |
|                                                                          |                                          |                                       |         |
| <ul> <li>Scrambling code type</li> <li>Scrambling code number</li> </ul> |                                          | Long<br>0 (0 to 16777215)             |         |
| - Scrambling code number - Number of DPDCH                               | 1                                        | 0 (0 to 16777215)<br>  Not Present(1) |         |
|                                                                          |                                          | Reference to TS34.108 clause 6.10     |         |
| - spreading factor                                                       |                                          | Parameter Set                         |         |
| - TFCI existence                                                         |                                          | Reference to TS34.108 clause 6.10     |         |
| - TFGI existence                                                         |                                          | Parameter Set                         |         |
| - Number of FBI bit                                                      |                                          | Reference to TS34.108 clause 6.10     |         |
| - Number of FBI bit                                                      |                                          | Parameter Set                         |         |
| Duncturing Limit                                                         |                                          | Reference to TS34.108 clause 6.10     |         |
| - Puncturing Limit                                                       |                                          | Parameter Set                         |         |
| CHOICE Mode                                                              | A1,A2,A3,                                | FDD                                   |         |
| OFFICIAL MIDGE                                                           | A1,A2,A3,<br>A4,A5,A6,                   |                                       |         |
|                                                                          | A7, A8                                   |                                       |         |
|                                                                          | , A9                                     |                                       | REL-5   |
|                                                                          | , 73                                     |                                       | INEL-3  |
| - Downlink PDSCH information                                             |                                          | Not Present                           |         |
| Bownink i Booti information                                              | 1                                        | Not Present                           | REL-5   |
|                                                                          | A1, A2, A3,                              | 1 NOC 1 1COCIN                        |         |
|                                                                          |                                          | Not i resent                          | 11220   |
| Downlink HS-PDSCH Information                                            | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9 | Notification                          | 11223   |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Value/remark                            | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A7, A8    |                                         |         |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1,A2, A3 |                                         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | , A9      |                                         | REL-5   |
| <ul> <li>Downlink DPCH info common for all RL</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                         |         |
| - Timing indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Maintain                                |         |
| <ul> <li>CFN-targetSFN frame offset</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Not Present                             |         |
| - Downlink DPCH power control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                         |         |
| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                         |         |
| - DPC mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 0 (single)                              |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | FDD                                     |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                       |         |
| <ul> <li>DL rate matching restriction information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                             |         |
| - Spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Reference to TS34.108 clause 6.10       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Parameter Set                           |         |
| - Fixed or Flexible Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Reference to TS34.108 clause 6.10       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Parameter Set                           |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to TS34.108 clause 6.10       |         |
| TI OI CAISTOTIOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Parameter Set                           |         |
| - CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Reference to TS34.108 clause 6.10       |         |
| - GIOIGE SI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Parameter Set                           |         |
| DDCH compressed made info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Not Present                             |         |
| - DPCH compressed mode info - TX Diversity mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | None None                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 1                                       |         |
| - SSDT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present                             |         |
| - Default DPCH Offset Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                             | DE: -   |
| - MAC-hs reset indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                             | REL-5   |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A4        |                                         |         |
| - Downlink DPCH info common for all RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                         |         |
| - Timing indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Initialise                              |         |
| <ul> <li>CFN-targetSFN frame offset</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Not Present                             |         |
| <ul> <li>Downlink DPCH power control</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |         |
| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                         |         |
| - DPC mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 0 (single)                              |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | FDD                                     |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                       |         |
| <ul> <li>DL rate matching restriction information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                             |         |
| - Spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Reference to TS34.108 clause 6.10       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Parameter Set                           |         |
| - Fixed or Flexible Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Reference to TS34.108 clause 6.10       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Parameter Set                           |         |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to TS34.108 clause 6.10       |         |
| The state of the s |           | Parameter Set                           |         |
| - CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Reference to TS34.108 clause 6.10       |         |
| OHOIGE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Parameter Set                           |         |
| - DPCH compressed mode info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                             |         |
| - TX Diversity mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | None                                    |         |
| - SSDT information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present                             |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |         |
| - Default DPCH Offset Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Arbitrary set to value 0306688 by step  |         |
| MAC he woost in director                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | of 512                                  | DELE    |
| - MAC-hs reset indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A4 A0 A0  | Not Present                             | REL-5   |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1,A2,A3  |                                         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | , A9      |                                         | REL-5   |
| -Downlink information for each radio link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                         |         |
| - Choice mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | FDD                                     |         |
| - Primary CPICH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                         |         |
| - Primary scrambling code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Ref. to the Default setting in TS34.108 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | clause 6.1 (FDD)                        |         |
| - PDSCH with SHO DCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Not Present                             |         |
| - PDSCH code mapping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Not Present                             |         |
| - Serving HS-DSCH radio link indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                                   | REL-5   |
| - Downlink DPCH info for each RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                         | 0       |
| - Primary CPICH usage for channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Primary CPICH may be used               |         |
| estimation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | I milary or for final be used           |         |
| - DPCH frame offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Set to value Default DPCH Offset Value  |         |
| - DEGLITATIVE OUSEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                         |         |
| Secondary CDICH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | (as currently stored in SS) mod 38400   |         |
| - Secondary CPICH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                             |         |
| - Secondary scrambling code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                         |         |
| - channelisation code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                         |         |

| Information Element                                                                  |            | Value/remark                                             | Version |
|--------------------------------------------------------------------------------------|------------|----------------------------------------------------------|---------|
| - DL channelisation code                                                             |            |                                                          |         |
| - Secondary scrambling code                                                          |            | 3                                                        |         |
| - Spreading factor                                                                   |            | Reference to TS34.108 clause 6.10                        |         |
|                                                                                      |            | Parameter Set                                            |         |
| - Code number                                                                        |            | 0                                                        |         |
| - Scrambling code change                                                             |            | No change                                                |         |
| - TPC combination index                                                              |            | 0                                                        |         |
| - SSDT Cell Identity                                                                 |            | Not Present                                              |         |
| Closed loop timing adjustment mode                                                   |            | Not Present                                              |         |
| - SCCPCH information for FACH                                                        |            | Not Present                                              |         |
| Downlink information for each radio link list                                        | A4         | 140t Federit                                             |         |
| -Downlink information for each radio link                                            | / \-       |                                                          |         |
| - Choice mode                                                                        |            | FDD                                                      |         |
| - Primary CPICH info                                                                 |            |                                                          |         |
| - Primary scrambling code                                                            |            | Pof to the Default setting in TS34 109                   |         |
| - I filliary scrambling code                                                         |            | Ref. to the Default setting in TS34.108 clause 6.1 (FDD) |         |
| - PDSCH with SHO DCH info                                                            |            | Not Present                                              |         |
|                                                                                      |            | Not Present                                              |         |
| <ul> <li>PDSCH code mapping</li> <li>Serving HS-DSCH radio link indicator</li> </ul> |            | FALSE                                                    | REL-5   |
|                                                                                      |            | FALSE                                                    | KEL-3   |
| - Downlink DPCH info for each RL                                                     |            | Deire and ODIOU as so he was a                           |         |
| - Primary CPICH usage for channel                                                    |            | Primary CPICH may be used                                |         |
| estimation PROLL fragrant affords                                                    |            | Cattle value - Dafault DDOLL Offers                      |         |
| - DPCH frame offset                                                                  |            | Set to value : Default DPCH Offset                       |         |
| 0 1 001011: (                                                                        |            | Value mod 38400                                          |         |
| - Secondary CPICH info                                                               |            | Not Present                                              |         |
| - Secondary scrambling code                                                          |            |                                                          |         |
| - channelisation code                                                                |            |                                                          |         |
| - DL channelisation code                                                             |            |                                                          |         |
| - Secondary scrambling code                                                          |            | 3<br>Defended to T004 400 days a 0.40                    |         |
| - Spreading factor                                                                   |            | Reference to TS34.108 clause 6.10                        |         |
|                                                                                      |            | Parameter Set                                            |         |
| - Code number                                                                        |            | 0                                                        |         |
| - Scrambling code change                                                             |            | No change                                                |         |
| - TPC combination index                                                              |            | U<br>Nat Day and                                         |         |
| - SSDT Cell Identity                                                                 |            | Not Present                                              |         |
| - Closed loop timing adjustment mode                                                 |            | Not Present                                              |         |
| - SCCPCH information for FACH                                                        | 1 45 45 46 | Not Present                                              |         |
| - Downlink information for each radio link                                           | A5, A7, A8 | 500                                                      |         |
| - Choice mode                                                                        |            | FDD                                                      |         |
| - Primary CPICH info                                                                 |            | D ( )   D (                 TCC                          |         |
| - Primary scrambling code                                                            |            | Ref. to the Default setting in TS34.108 clause 6.1 (FDD) |         |
| - PDSCH with SHO DCH info                                                            |            | Not Present                                              |         |
| - PDSCH code mapping                                                                 |            | Not Present                                              |         |
| - Serving HS-DSCH radio link indicator                                               |            | FALSE                                                    | REL-5   |
| - Downlink DPCH info for each RL                                                     |            | Not present                                              |         |
| - SCCPCH information for FACH                                                        |            | Not Present                                              |         |
| - Downlink information for each radio link                                           | A6         | Not Present                                              |         |

| Condition | Explanation                                                          | Version |
|-----------|----------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech in CS"                                  |         |
| A2        | This IE need for "Speech in CS"                                      |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"            |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"           |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"           |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"          |         |
| A7        | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"       |         |
| A8        | This IE need for "Speech to CELL_FACH from CELL_DCH in CS"           |         |
| A9        | This IE is needed for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in | REL-5   |
|           | PS"                                                                  |         |

## Contents of RADIO BEARER RELEASE COMPLETE message: AM

| Message Type                                       |                                                               |
|----------------------------------------------------|---------------------------------------------------------------|
| RRC transaction identifier                         | Checked to see the value is identical to the same IE in the   |
|                                                    | downlink RADIO BEARER RELEASE message.                        |
| Integrity check info                               |                                                               |
| <ul> <li>Message authentication code</li> </ul>    | This IE is checked to see if it is present. The value is      |
|                                                    | compared against the XMAC-I value computed by SS. The         |
|                                                    | first/ leftmost bit of the bit string contains the most       |
|                                                    | significant bit of the MAC-I.                                 |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used |
|                                                    | by SS to compute the XMAC-I value.                            |
| Uplink integrity protection activation info        | Not checked.                                                  |
| CHOICE mode                                        | FDD                                                           |
| COUNT-C activation time                            | Not checked                                                   |
| Radio bearer uplink ciphering activation time info | Not checked                                                   |
| Uplink counter synchronisation info                | Not present                                                   |
|                                                    |                                                               |

## Contents of RADIO BEARER RELEASE FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 |                                                                                                                                                                                                      |
| RRC transaction identitifer                                  | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message.                                                                                          |
| Integrity check info                                         |                                                                                                                                                                                                      |
| - Message authentication code                                | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not checked                                                                                                                                                                                          |

#### Contents of RRC CONNECTION REQUEST message: TM

| Information Element                         | Value/remark                                      | Version |
|---------------------------------------------|---------------------------------------------------|---------|
| Message Type                                |                                                   |         |
| Predefined configuration status information | To be checked against requirement if specified    | REL-5   |
| Initial UE identity                         |                                                   |         |
| - CHOICE UE id type                         |                                                   |         |
| - TMSI and LAI (GSM-MAP)                    | Set to the UE's TMSI and LAI.                     |         |
| Establishment cause                         | To be checked against requirement if specified    |         |
| Protocol error indicator                    | FALSE                                             |         |
| UE Specific Behaviour Information 1 idle    | This IE will not be checked by default behaviour, |         |
|                                             | but in specific test case.                        |         |
| Measured results on RACH                    | To be checked against requirement if specified    |         |
|                                             |                                                   | REL-4   |
| Access stratum release indicator            | To be checked against requirement if specified    | REL-4   |

## Contents of RRC CONNECTION REJECT message: UM

| Information Element        | Value/remark                                               |
|----------------------------|------------------------------------------------------------|
| Message Type               |                                                            |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3             |
| Initial UE identity        | Select the same type as in the IE "Initial UE Identity" in |
|                            | RRC CONNECTION REQUEST" message.                           |
| Rejection cause            | Unspecified                                                |
| Wait Time                  | 0                                                          |
| Redirection info           | Not Present                                                |

## Contents of RRC CONNECTION RELEASE message: UM

| Information Element                           | Value/remark                                                                                                                                                       | Version    |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Message Type                                  |                                                                                                                                                                    |            |
| U-RNTĬ                                        | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.                                       | R99, REL-4 |
| - SRNC identity                               | 0000 0000 0001B                                                                                                                                                    |            |
| - S-RNTI                                      | 0000 0000 0000 0000 0001B                                                                                                                                          |            |
| CHOICE identity type                          | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.                                       | REL-5      |
| - U-RNTI                                      |                                                                                                                                                                    |            |
| - SRNC identity                               | 0000 0000 0001B                                                                                                                                                    |            |
| - S-RNTI                                      | 0000 0000 0000 0000 0001B                                                                                                                                          |            |
| - Group identity                              | [FFS]                                                                                                                                                              |            |
| <ul> <li>Group release information</li> </ul> | [FFS]                                                                                                                                                              |            |
| RRC transaction identifier                    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |            |
| Integrity check info                          | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.                                                   |            |
| - Message authentication code                 | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |            |
| - RRC Message sequence number                 | SS provides the value of this IE, from its internal counter.                                                                                                       |            |
| N308                                          | 2 (for CELL_DCH state). Not Present (for UE in other                                                                                                               |            |
|                                               | connected mode states).                                                                                                                                            |            |
| Release cause                                 | Normal event                                                                                                                                                       |            |
| Rplmn information                             | Not Present                                                                                                                                                        |            |

# Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

| Information Element           | Semantics description                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                         |
| RRC transaction identifier    | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.                             |
| Integrity check info          |                                                                                                                                                                         |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | Checked to see if it is present. This number is used by the SS to compute the XMAC-I                                                                                    |
| Error indication              | Not checked                                                                                                                                                             |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH)

| Information Element                                          | Value/remark                                                   | Version |
|--------------------------------------------------------------|----------------------------------------------------------------|---------|
| Message Type                                                 |                                                                |         |
| Initial UE identity                                          | Select the same identity as in the IE "Initial UE Identity" in |         |
| •                                                            | received RRC CONNECTION REQUEST" message                       |         |
| RRC transaction identifier                                   | Arbitrarily selects an integer between 0 and 3                 |         |
| Activation time                                              | Not Present(Now)                                               |         |
| New U-RNTI                                                   |                                                                |         |
| - SRNC identity                                              | 0000 0000 0001B                                                |         |
| - S-RNTI                                                     | 0000 0000 0000 0000 0001B                                      |         |
| New C-RNTI                                                   | Not present                                                    |         |
| RRC State Indicator                                          | CELL_DCH                                                       |         |
| UTRAN DRX cycle length coefficient                           | 9                                                              |         |
| Capability update requirement                                |                                                                |         |
| - UE radio access FDD capability update                      | TRUE                                                           |         |
| requirement                                                  |                                                                |         |
| - UE radio access TDD capability update                      | FALSE                                                          |         |
| requirement                                                  |                                                                |         |
| - System specific capability update requirement list         | GSM                                                            |         |
| CHOICE specification mode                                    | Complete specification                                         | REL-5   |
| - Complete specification                                     |                                                                | REL-5   |
| - Signalling RB information to setup                         | (UM DCCH for RRC)                                              |         |
| - RB identity                                                | Not Present                                                    |         |
| - CHOICE RLC info type                                       |                                                                |         |
| - RLC info                                                   |                                                                |         |
| - CHOICE Uplink RLC mode                                     | UM RLC                                                         |         |
| - Transmission RLC discard                                   | Not Present                                                    |         |
| - CHOICE Downlink RLC mode                                   | UM RLC                                                         |         |
| - RB mapping info                                            |                                                                |         |
| <ul> <li>Information for each multiplexing option</li> </ul> | 2 RBMuxOptions                                                 |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                                    |         |
| <ul> <li>Number of RLC logical channels</li> </ul>           | 1                                                              |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | DCH                                                            |         |
| - UL Transport channel identity                              | 5                                                              |         |
| - Logical channel identity                                   | 1                                                              |         |
| - CHOICE RLC size list                                       | Configured                                                     |         |
| <ul> <li>MAC logical channel priority</li> </ul>             | 1                                                              |         |
| - Downlink RLC logical channel info                          |                                                                |         |
| - Number of RLC logical channels                             | 1                                                              |         |
| <ul> <li>Downlink transport channel type</li> </ul>          | DCH                                                            |         |
| <ul> <li>DL DCH Transport channel identity</li> </ul>        | 10                                                             |         |
| <ul> <li>DL DSCH Transport channel identity</li> </ul>       | Not Present                                                    |         |
| - Logical channel identity                                   | 1                                                              |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                                    |         |
| - Number of RLC logical channels                             | 1                                                              |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | RACH                                                           |         |
| - UL Transport channel identity                              | Not Present                                                    |         |
| - Logical channel identity                                   | 1                                                              |         |
| - CHOICE RLC size list                                       | Explicit List                                                  |         |
| - RLC size index                                             | According to TS34.108 clause 6.10.2.4.1.3 (standalone          |         |
|                                                              | 13.6 kbps signalling radio bearer)                             |         |
| - MAC logical channel priority                               | 1                                                              |         |
| - Downlink RLC logical channel info                          |                                                                |         |
| <ul> <li>Number of RLC logical channels</li> </ul>           | 1                                                              |         |
| <ul> <li>Downlink transport channel type</li> </ul>          | FACH                                                           |         |
| - DL DCH Transport channel identity                          | Not Present                                                    |         |
| - DL DSCH Transport channel identity                         | Not Present                                                    |         |
| - Logical channel identity                                   | 1                                                              |         |
| - Signalling RB information to setup                         | (AM DCCH for RRC)                                              |         |
| - RB identity                                                | Not Present                                                    |         |
| - CHOICE RLC info type                                       |                                                                |         |
| - RLC info                                                   |                                                                |         |
| - CHOICE Uplink RLC mode                                     | AM RLC                                                         |         |
| - Transmission RLC discard                                   |                                                                |         |
| - SDU discard mode                                           | No discard                                                     |         |
| - MAX_DAT                                                    | 15                                                             |         |
| - Transmission window size                                   | 32                                                             | İ       |

| Information Element                                                | Value/remark                                          | Version |
|--------------------------------------------------------------------|-------------------------------------------------------|---------|
| - Timer_RST                                                        | 500                                                   |         |
| - Max_RST                                                          | 1                                                     |         |
| - Polling info                                                     |                                                       |         |
| - Timer_poll_prohibit                                              | 200                                                   |         |
| - Timer_poll                                                       | 200                                                   |         |
| - Poll_PDU                                                         | Not Present                                           |         |
| - Poll_SDU                                                         | 1                                                     |         |
| <ul> <li>Last transmission PDU poll</li> </ul>                     | TRUE                                                  |         |
| <ul> <li>Last retransmission PDU poll</li> </ul>                   | TRUE                                                  |         |
| - Poll_Window                                                      | 99                                                    |         |
| - Timer_poll_periodic                                              | Not Present                                           |         |
| - CHOICE Downlink RLC mode                                         | AM RLC                                                |         |
| - In-sequence delivery                                             | TRUE                                                  |         |
| - Receiving window size                                            | 32                                                    |         |
| - Downlink RLC status info                                         |                                                       |         |
| - Timer_status_prohibit                                            | 200                                                   |         |
| - Timer_EPC                                                        | Not Present                                           |         |
| - Missing PDU indicator                                            | TRUE                                                  |         |
| - Timer_STATUS_periodic                                            | Not Present                                           |         |
| - RB mapping info                                                  | o BBM - O - i'                                        |         |
| - Information for each multiplexing option                         | 2 RBMuxOptions                                        |         |
| - RLC logical channel mapping indicator                            | Not Present                                           |         |
| - Number of RLC logical channels                                   |                                                       |         |
| - Uplink transport channel type                                    | DCH                                                   |         |
| - UL Transport channel identity                                    | 5                                                     |         |
| - Logical channel identity                                         | Configura d                                           |         |
| - CHOICE RLC size list                                             | Configured                                            |         |
| MAC logical channel priority     Downlink RLC logical channel info | 2                                                     |         |
| - Number of RLC logical channels                                   | 1                                                     |         |
| - Downlink transport channel type                                  | DCH                                                   |         |
| - DL DCH Transport channel identity                                | 10                                                    |         |
| - DL DSCH Transport channel identity                               | Not Present                                           |         |
| - Logical channel identity                                         | 2                                                     |         |
| - RLC logical channel mapping indicator                            | Not Present                                           |         |
| - Number of RLC logical channels                                   | 1                                                     |         |
| - Uplink transport channel type                                    | RACH                                                  |         |
| - UL Transport channel identity                                    | Not Present                                           |         |
| - Logical channel identity                                         | 2                                                     |         |
| - CHOICE RLC size list                                             | Explicit List                                         |         |
| - RLC size index                                                   | According to TS34.108 clause 6.10.2.4.1.3 (standalone |         |
|                                                                    | 13.6 kbps signalling radio bearer)                    |         |
| <ul> <li>MAC logical channel priority</li> </ul>                   | 2                                                     |         |
| <ul> <li>Downlink RLC logical channel info</li> </ul>              |                                                       |         |
| <ul> <li>Number of RLC logical channels</li> </ul>                 | 1                                                     |         |
| <ul> <li>Downlink transport channel type</li> </ul>                | FACH                                                  |         |
| - DL DCH Transport channel identity                                | Not Present                                           |         |
| - DL DSCH Transport channel identity                               | Not Present                                           |         |
| - Logical channel identity                                         | [2<br>(AM DOOLL( MAG STUDE 1 11)                      |         |
| - Signalling RB information to setup                               | (AM DCCH for NAS_DT High priority)                    |         |
| - RB identity                                                      | Not Present                                           |         |
| - CHOICE RLC info type                                             |                                                       |         |
| - RLC info<br>- CHOICE Uplink RLC mode                             | AM RLC                                                |         |
| - CHOICE Uplink RLC mode - Transmission RLC discard                | AIVI NEC                                              |         |
| - Transmission RLC discard - SDU discard mode                      | No discard                                            |         |
| - MAX_DAT                                                          | 15                                                    |         |
| - Transmission window size                                         | 32                                                    |         |
| - Transmission window size<br>- Timer_RST                          | 500                                                   |         |
| - Max_RST                                                          | 1                                                     |         |
| - Polling info                                                     | ľ                                                     |         |
| - Timer_poll_prohibit                                              | 200                                                   |         |
| - Timer_poll                                                       | 200                                                   |         |
| - Poll_PDU                                                         | Not present                                           |         |
| - Poll_SDU                                                         | 1                                                     |         |
| - Last transmission PDU poll                                       | TRUE                                                  |         |
| - Last retransmission PDU poll                                     | TRUE                                                  |         |
| ·                                                                  |                                                       |         |

| Information Element                                                                               | Value/remark                                          | Version |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|
| - Poll_Window                                                                                     | 99                                                    |         |
| - Timer_poll_periodic                                                                             | Not Present                                           |         |
| - CHOICE Downlink RLC mode                                                                        | AM RLC                                                |         |
| - In-sequence delivery                                                                            | TRUE                                                  |         |
| <ul> <li>Receiving window size</li> </ul>                                                         | 32                                                    |         |
| - Downlink RLC status info                                                                        |                                                       |         |
| - Timer_status_prohibit                                                                           | 200                                                   |         |
| - Timer_EPC                                                                                       | Not present                                           |         |
| - Missing PDU indicator                                                                           | TRUE                                                  |         |
| - Timer_STATUS_periodic                                                                           | Not Present                                           |         |
| <ul> <li>RB mapping info</li> <li>Information for each multiplexing option</li> </ul>             | 2 PPMuyOntions                                        |         |
| - RLC logical channel mapping indicator                                                           | 2 RBMuxOptions Not Present                            |         |
| - Number of RLC logical channels                                                                  | 1                                                     |         |
| - Uplink transport channel type                                                                   | DCH                                                   |         |
| - UL Transport channel identity                                                                   | 5                                                     |         |
| - Logical channel identity                                                                        | 3                                                     |         |
| - CHOICE RLC size list                                                                            | Configured                                            |         |
| <ul> <li>MAC logical channel priority</li> </ul>                                                  | 3                                                     |         |
| <ul> <li>Downlink RLC logical channel info</li> </ul>                                             |                                                       |         |
| <ul> <li>Number of RLC logical channels</li> </ul>                                                | 1                                                     |         |
| - Downlink transport channel type                                                                 | DCH                                                   |         |
| - DL DCH Transport channel identity                                                               | Not Brown and                                         |         |
| - DL DSCH Transport channel identity                                                              | Not Present                                           |         |
| - Logical channel identity                                                                        | 3<br>Not Present                                      |         |
| <ul> <li>RLC logical channel mapping indicator</li> <li>Number of RLC logical channels</li> </ul> | Not Present                                           |         |
| Uplink transport channel type                                                                     | RACH                                                  |         |
| - UL Transport channel identity                                                                   | Not Present                                           |         |
| - Logical channel identity                                                                        | 3                                                     |         |
| - CHOICE RLC size list                                                                            | Explicit List                                         |         |
| - RLC size index                                                                                  | According to TS34.108 clause 6.10.2.4.1.3 (standalone |         |
|                                                                                                   | 13.6 kbps signalling radio bearer)                    |         |
| <ul> <li>MAC logical channel priority</li> </ul>                                                  | 3                                                     |         |
| - Downlink RLC logical channel info                                                               |                                                       |         |
| - Number of RLC logical channels                                                                  | 1                                                     |         |
| <ul> <li>Downlink transport channel type</li> <li>DL DCH Transport channel identity</li> </ul>    | FACH<br>Not Present                                   |         |
| - DL DSCH Transport channel identity                                                              | Not Present                                           |         |
| - Logical channel identity                                                                        | 3                                                     |         |
| - Signalling RB information to setup                                                              | (AM DCCH for NAS_DT Low priority)                     |         |
| - RB identity                                                                                     | Not Present                                           |         |
| - CHOICE RLC info type                                                                            |                                                       |         |
| - RLC info                                                                                        |                                                       |         |
| - CHOICE Uplink RLC mode                                                                          | AM RLC                                                |         |
| - Transmission RLC discard                                                                        | l                                                     |         |
| - SDU discard mode                                                                                | No discard                                            |         |
| - MAX_DAT                                                                                         | 15                                                    |         |
| - Transmission window size                                                                        | 32<br>500                                             |         |
| - Timer_RST<br>- Max_RST                                                                          | 1                                                     |         |
| - Max_R31<br>- Polling info                                                                       | [                                                     |         |
| - Timer_poll_prohibit                                                                             | 200                                                   |         |
| - Timer_poll                                                                                      | 200                                                   |         |
| - Poll_PDU                                                                                        | Not present                                           |         |
| - Poll_SDU                                                                                        | 1                                                     |         |
| - Last transmission PDU poll                                                                      | TRUE                                                  |         |
| - Last retransmission PDU poll                                                                    | TRUE                                                  |         |
| - Poll_Window                                                                                     | 99                                                    |         |
| - Timer_poll_periodic                                                                             | Not Present                                           |         |
| - CHOICE Downlink RLC mode                                                                        | AM RLC                                                |         |
| - In-sequence delivery                                                                            | TRUE<br>32                                            |         |
| <ul><li>Receiving window size</li><li>Downlink RLC status info</li></ul>                          | S2                                                    |         |
| - Timer_status_prohibit                                                                           | 200                                                   |         |
| - Timer_EPC                                                                                       | Not Present                                           |         |
| - Missing PDU indicator                                                                           | TRUE                                                  |         |
| •                                                                                                 | · '                                                   | ı       |

| Information Element                                                                      | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version  |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| - Timer_STATUS_periodic                                                                  | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 70101011 |
| - RB mapping info                                                                        | THE THE SECTION OF TH |          |
| - Information for each multiplexing option                                               | 2 RBMuxOptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>                                | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| <ul> <li>Number of RLC logical channels</li> </ul>                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - Uplink transport channel type                                                          | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| - UL Transport channel identity                                                          | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - Logical channel identity                                                               | 4<br>Configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| CHOICE RLC size list     MAC logical channel priority                                    | Configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
| - Downlink RLC logical channel info                                                      | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - Number of RLC logical channels                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - Downlink transport channel type                                                        | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| - DL DCH Transport channel identity                                                      | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| <ul> <li>DL DSCH Transport channel identity</li> </ul>                                   | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| <ul> <li>Logical channel identity</li> </ul>                                             | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - RLC logical channel mapping indicator                                                  | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| - Number of RLC logical channels                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| <ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul> | RACH<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| - OE Transport channel identity - Logical channel identity                               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - CHOICE RLC size list                                                                   | Explicit List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |
| - RLC size index                                                                         | According to TS34.108 clause 6.10.2.4.1.3 (standalone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
|                                                                                          | 13.6 kbps signalling radio bearer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| - MAC logical channel priority                                                           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| <ul> <li>Downlink RLC logical channel info</li> </ul>                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| <ul> <li>Number of RLC logical channels</li> </ul>                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - Downlink transport channel type                                                        | FACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| - DL DCH Transport channel identity                                                      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| <ul> <li>DL DSCH Transport channel identity</li> <li>Logical channel identity</li> </ul> | Not Present<br>4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| UL Transport channel information for all transport                                       | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| channels                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| - PRACH TFCS                                                                             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| - CHOICE Mode                                                                            | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| - TFC subset                                                                             | Nor Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| - UL DCH TFCS                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| - CHOICE TFCI signalling                                                                 | Normal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
| - TFCI Field 1 information                                                               | On well at a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| - CHOICE TFCS representation                                                             | Complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| <ul> <li>TFCS complete reconfigure</li> <li>CHOICE CTFC Size</li> </ul>                  | 2bit CTFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| - CTFC information                                                                       | This IE is repeated for TFC numbers according to TS 34.108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
|                                                                                          | clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
|                                                                                          | bearer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| - CTFC                                                                                   | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
|                                                                                          | kbps signalling radio bearer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |
| - Power offset information                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| - CHOICE Gain Factors                                                                    | Computed Gain Factors (The last TFC is set to Signalled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| - Gain factor ßc                                                                         | Gain Factors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |
| - Gain iaciói isc                                                                        | 11 (below 64 kbps) 9 (higher than 64 kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
|                                                                                          | (Not Present if the above is set to Computed Gain Factors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
| - Gain factor ßd                                                                         | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
|                                                                                          | (Not Present if the above is set to Computed Gain Factors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
| - Reference TFC ID                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - CHOICE mode                                                                            | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| - Power offset Pp-m                                                                      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| Added or Reconfigured UL TrCH information                                                | DOLL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| - Uplink transport channel type                                                          | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| <ul> <li>UL Transport channel identity</li> <li>TFS</li> </ul>                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| - CHOICE Transport channel type                                                          | Dedicated transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| - Dynamic Transport format information                                                   | Dodioatoa transport orialineis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| - RLC size                                                                               | According to TS 34.108 clause 6.10.2.4.1.3 (standalone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
|                                                                                          | 13.6 kbps signalling radio bearer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| - Number of TBs and TTI lists                                                            | (This IE is repeated for TFI number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |

| Information Element                                          | Value/remark                                                                                                                                                                      | Version |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| - Transmission Time Interval                                 | According to TS 34.108 clause 6.10.2.4.1.3 (standalone                                                                                                                            |         |
|                                                              | 13.6 kbps signalling radio bearer)                                                                                                                                                |         |
| <ul> <li>Number of Transport blocks</li> </ul>               | According to TS 34.108 clause 6.10.2.4.1.3 (standalone                                                                                                                            |         |
| ,                                                            | 13.6 kbps signalling radio bearer)                                                                                                                                                |         |
| - CHOICE Logical channel list                                | All                                                                                                                                                                               |         |
| - Semi-static Transport Format information                   |                                                                                                                                                                                   |         |
| - Transmission time interval                                 | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| Transmission time interval                                   | kbps signalling radio bearer)                                                                                                                                                     |         |
| - Type of channel coding                                     | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| Type of charmer coding                                       | kbps signalling radio bearer)                                                                                                                                                     |         |
| - Coding Rate                                                | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| - Coding Nate                                                | kbps signalling radio bearer)                                                                                                                                                     |         |
| - Rate matching attribute                                    | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| - Nate matering attribute                                    | kbps signalling radio bearer)                                                                                                                                                     |         |
| - CRC size                                                   | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| - CRC SIZE                                                   |                                                                                                                                                                                   |         |
| N. Transport shannel information common for all              | kbps signalling radio bearer)                                                                                                                                                     |         |
| DL Transport channel information common for all              |                                                                                                                                                                                   |         |
| ransport channel                                             | Net Decemb                                                                                                                                                                        |         |
| - SCCPCH TFCS                                                | Not Present                                                                                                                                                                       |         |
| - CHOICE mode                                                | FDD                                                                                                                                                                               |         |
| - CHOICE DL parameters                                       | Same as UL                                                                                                                                                                        |         |
| Added or Reconfigured DL TrCH information                    | la qui                                                                                                                                                                            |         |
| - Downlink transport channel type                            | DCH                                                                                                                                                                               |         |
| - DL Transport channel identity                              | 10                                                                                                                                                                                |         |
| - CHOICE DL parameters                                       | Same as UL                                                                                                                                                                        |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | DCH                                                                                                                                                                               |         |
| - UL TrCH Identity                                           | 5                                                                                                                                                                                 |         |
| - DCH quality target                                         |                                                                                                                                                                                   |         |
| - BLER Quality value                                         | -2.0                                                                                                                                                                              |         |
| requency info                                                | Not Present                                                                                                                                                                       |         |
| Maximum allowed UL TX power                                  | Not Present                                                                                                                                                                       |         |
| Jplink DPCH info                                             |                                                                                                                                                                                   |         |
| - Uplink DPCH power control info                             |                                                                                                                                                                                   |         |
| - DPCCH power offset                                         | -80dB (i.e. ASN.1 IE value of -40)                                                                                                                                                |         |
| - PC Preamble                                                | 1 frame                                                                                                                                                                           |         |
| - SRB delay                                                  | 7 frames                                                                                                                                                                          |         |
| - Power Control Algorithm                                    | Algorithm1                                                                                                                                                                        |         |
| - TPC step size                                              | 1dB                                                                                                                                                                               |         |
| - Scrambling code type                                       | Long                                                                                                                                                                              |         |
| - Scrambling code number                                     | 0 (0 to 16777215)                                                                                                                                                                 |         |
| - Number of DPDCH                                            | Not Present(1)                                                                                                                                                                    |         |
| - Spreading factor                                           | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| Oproading factor                                             | kbps signalling radio bearer)                                                                                                                                                     |         |
| - TFCI existence                                             | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| II OI GAISIGHUG                                              | kbps signalling radio bearer)                                                                                                                                                     |         |
| - Number of FBI bit                                          |                                                                                                                                                                                   |         |
| - INUTIDE OF FOLDIC                                          | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)                                                                                          |         |
| Donastonia a Lincit                                          |                                                                                                                                                                                   |         |
| - Puncturing Limit                                           | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
|                                                              | kbps signalling radio bearer)                                                                                                                                                     |         |
| Downlink information common for all radio links              |                                                                                                                                                                                   |         |
| - Downlink DPCH info common for all RL                       |                                                                                                                                                                                   |         |
| - Timing Indication                                          | Initialise                                                                                                                                                                        |         |
| - CFN-targetSFN frame offset                                 | Not Present                                                                                                                                                                       |         |
| - CHOICE mode                                                | FDD                                                                                                                                                                               |         |
| <ul> <li>Downlink DPCH power control information</li> </ul>  |                                                                                                                                                                                   |         |
| - DPC mode                                                   | 0 (single)                                                                                                                                                                        |         |
| - Power offset P Pilot-DPDCH                                 | 0                                                                                                                                                                                 |         |
| <ul> <li>DL rate matching restriction information</li> </ul> | Not Present                                                                                                                                                                       |         |
| - Spreading factor                                           | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| Oproduing ractor                                             | kbps signalling radio bearer)                                                                                                                                                     |         |
| oproduing ractor                                             | Inopo digitaling radio ocarci                                                                                                                                                     |         |
| - Fixed or Flexible Position                                 |                                                                                                                                                                                   |         |
|                                                              | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                                                                                                                        |         |
| - Fixed or Flexible Position                                 | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)                                                                                          |         |
|                                                              | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                               |         |
| - Fixed or Flexible Position - TFCI existence                | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         |
| - Fixed or Flexible Position                                 | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6                               |         |

| Information Element                                            | Value/remark                                               | Version |
|----------------------------------------------------------------|------------------------------------------------------------|---------|
| - TX Diversity mode                                            | None                                                       |         |
| - SSDT information                                             | Not Present                                                |         |
| - Default DPCH Offset Value                                    | Arbitrary set to value 0306688 by step of 512              |         |
| Downlink information for each radio links list                 |                                                            |         |
| - Downlink information for each radio links                    |                                                            |         |
| - CHOICE mode                                                  | FDD                                                        |         |
| - Primary CPICH info                                           |                                                            |         |
| - Primary scrambling code                                      | Reference to clause 6.1 "Default settings (FDD)"           |         |
| - PDSCH with SHO DCH info                                      | Not Present                                                |         |
| - PDSCH code mapping                                           | Not Present                                                |         |
| - Downlink DPCH info for each RL                               |                                                            |         |
| <ul> <li>Primary CPICH usage for channel estimation</li> </ul> | Primary CPICH may be used                                  |         |
| - DPCH frame offset                                            | Set to value: Default DPCH Offset Value mod 38400          |         |
| - Secondary CPICH info                                         | Not Present                                                |         |
| - DL channelisation code                                       |                                                            |         |
| - Secondary scrambling code                                    | 1                                                          |         |
| - Spreading factor                                             | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 |         |
|                                                                | kbps signalling radio bearer)                              |         |
| - Code number                                                  | 0                                                          |         |
| - Scrambling code change                                       | Not Present                                                |         |
| - TPC combination index                                        | 0                                                          |         |
| - SSDT Cell Identity                                           | Not Present                                                |         |
| <ul> <li>Closed loop timing adjustment mode</li> </ul>         | Not Present                                                |         |
| - SCCPCH information for FACH                                  | Not Present                                                |         |

## Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)

| Information Element                                                    | Value/remark                                                   | Version |
|------------------------------------------------------------------------|----------------------------------------------------------------|---------|
| Message Type                                                           |                                                                |         |
| Initial UE identity                                                    | Select the same identity as in the IE "Initial UE Identity" in |         |
| ·                                                                      | received RRC CONNECTION REQUEST" message                       |         |
| RRC transaction identifier                                             | Arbitrarily selects an integer between 0 and 3                 |         |
| Activation time                                                        | Not Present (Now)                                              |         |
| New U-RNTI                                                             |                                                                |         |
| - SRNC identity                                                        | 0000 0000 0001B                                                |         |
| - S-RNTI                                                               | 0000 0000 0000 0000 0001B                                      |         |
| New C-RNTI                                                             | 0000 0000 0000 0001B                                           |         |
| RRC state indicator                                                    | CELL_FACH                                                      |         |
| UTRAN DRX cycle length coefficient                                     | 9                                                              |         |
| Capability update requirement                                          |                                                                |         |
| <ul> <li>UE radio access FDD capability update</li> </ul>              | TRUE                                                           |         |
| requirement                                                            |                                                                |         |
| <ul> <li>UE radio access TDD capability update</li> </ul>              | FALSE                                                          |         |
| requirement                                                            |                                                                |         |
| <ul> <li>System specific capability update requirement list</li> </ul> | GSM                                                            |         |
| CHOICE specification mode                                              | Complete specification                                         | REL-5   |
| - Complete specification                                               |                                                                | REL-5   |
| - Signalling RB information to setup                                   | (UM DCCH for RRC)                                              |         |
| - RB identity                                                          | Not present                                                    |         |
| - CHOICE RLC info type                                                 | RLC info                                                       |         |
| - CHOICE Uplink RLC mode                                               | UM RLC                                                         |         |
| - Transmission RLC discard                                             | Not present                                                    |         |
| - SDU discard mode                                                     | Not present                                                    |         |
| - CHOICE Downlink RLC mode                                             | UM RLC                                                         |         |
| - RB mapping info                                                      | O DDM: Ontions                                                 |         |
| - Information for each multiplexing option                             | 2 RBMuxOptions                                                 |         |
| - RLC logical channel mapping indicator                                | Not Present                                                    |         |
| - Number of uplink RLC logical channels                                | 1                                                              |         |
| - Uplink transport channel type                                        | DCH                                                            |         |
| - UL Transport channel identity     - Logical channel identity         | 5 1                                                            |         |
| - CHOICE RLC size list                                                 | Configured                                                     |         |
| - MAC logical channel priority                                         | 1                                                              |         |
| - MAC logical channel priority - Downlink RLC logical channel info     |                                                                |         |
| Number of downlink RLC logical channels                                | 1                                                              |         |
| - Downlink transport channel type                                      | DCH                                                            |         |
| - Downlink transport charmer type                                      | ווסטן                                                          |         |

| Information Element                              | Value/remark                              | Version |
|--------------------------------------------------|-------------------------------------------|---------|
| - DL DCH Transport channel identity              | 10                                        |         |
| - DL DSCH Transport channel identity             | Not Present                               |         |
| - Logical channel identity                       | 1                                         |         |
| - RLC logical channel mapping indicator          | Not Present                               |         |
| - Number of uplink RLC logical channels          | 1                                         |         |
| - Uplink transport channel type                  | RACH                                      |         |
| - UL Transport channel identity                  | Not Present                               |         |
| - Logical channel identity                       | 1                                         |         |
| - CHOICE RLC size list                           | Explicit list                             |         |
| - RLC size index                                 | According to TS34.108 clause 6.10.2.4.4.1 |         |
| - MAC logical channel priority                   | 1                                         |         |
| - Downlink RLC logical channel info              |                                           |         |
| - Number of downlink RLC logical channels        | 1                                         |         |
| - Downlink transport channel type                | FACH                                      |         |
| - DL DCH Transport channel identity              | Not Present                               |         |
| - DL DSCH Transport channel identity             | Not Present                               |         |
| - Logical channel identity                       | 1                                         |         |
| - Signalling RB information to setup             |                                           |         |
|                                                  | (AM DCCH for RRC)                         |         |
| - RB identity                                    | Not Present                               |         |
| - CHOICE RLC info type                           | RLC info                                  |         |
| - CHOICE Uplink RLC mode                         | AM RLC                                    |         |
| - Transmission RLC discard                       | N. 5.                                     |         |
| - SDU discard mode                               | No Discard                                |         |
| - MAX_DAT                                        | 15                                        |         |
| - Transmission window size                       | 32                                        |         |
| - Timer_RST                                      | 500                                       |         |
| - Max_RST                                        | 1                                         |         |
| - Polling info                                   |                                           |         |
| - Timer_poll_prohibit                            | 200                                       |         |
| - Timer_poll                                     | 200                                       |         |
| - Poll_PDU                                       | Not Present                               |         |
| - Poll_SDU                                       | 1                                         |         |
| <ul> <li>Last transmission PDU poll</li> </ul>   | TRUE                                      |         |
| <ul> <li>Last retransmission PDU poll</li> </ul> | TRUE                                      |         |
| - Poll_Windows                                   | 99                                        |         |
| - Timer_poll_periodic                            | Not Present                               |         |
| - CHOICE Downlink RLC mode                       | AM RLC                                    |         |
| - In-sequence delivery                           | TRUE                                      |         |
| - Receiving window size                          | 32                                        |         |
| - Downlink RLC status info                       |                                           |         |
| - Timer_status_prohibit                          | 200                                       |         |
| - Timer_EPC                                      | Not Present                               |         |
| - Missing PDU indicator                          | TRUE                                      |         |
| - Timer_STATUS_periodic                          | Not Present                               |         |
| - RB mapping info                                |                                           |         |
| - Information for each multiplexing option       | 2 RBMuxOptions                            |         |
| - RLC logical channel mapping indicator          | Not Present                               |         |
| - Number of uplink RLC logical channels          | 1                                         |         |
| - Uplink transport channel type                  | DCH                                       |         |
| - UL Transport channel identity                  | 5                                         |         |
| - Logical channel identity                       | 2                                         |         |
| - CHOICE RLC size list                           | Configured                                |         |
| - MAC logical channel priority                   | 2                                         |         |
| - Downlink RLC logical channel info              | \ \frac{1}{2}                             |         |
| - Number of downlink RLC logical channels        | 1                                         |         |
| - Downlink transport channel type                | DCH                                       |         |
| - DL DCH Transport channel identity              | 10                                        |         |
|                                                  |                                           |         |
| - DL DSCH Transport channel identity             | Not Present 2                             |         |
| - Logical channel identity                       |                                           |         |
| - RLC logical channel mapping indicator          | Not Present                               |         |
| - Number of uplink RLC logical channels          | 1                                         |         |
| - Uplink transport channel type                  | RACH<br>Not Brogent                       |         |
| - UL Transport channel identity                  | Not Present                               |         |
| - Logical channel identity                       | 2                                         |         |

| Information Element                                                                      | Value/remark                              | Version |
|------------------------------------------------------------------------------------------|-------------------------------------------|---------|
| - CHOICE RLC size list                                                                   | Explicit list                             |         |
| - RLC size index                                                                         | According to TS34.108 clause 6.10.2.4.4.1 |         |
| <ul> <li>MAC logical channel priority</li> </ul>                                         | 2                                         |         |
| - Downlink RLC logical channel info                                                      |                                           |         |
| - Number of downlink RLC logical channels                                                | 1                                         |         |
| - Downlink transport channel type                                                        | FACH                                      |         |
| - DL DCH Transport channel identity                                                      | Not Present                               |         |
| - DL DSCH Transport channel identity                                                     | Not Present                               |         |
| - Logical channel identity                                                               | (ANA DOCULTOR NIA C. DT. High projective) |         |
| Signalling RB information to setup                                                       | (AM DCCH for NAS_DT High priority)        |         |
| - RB identity                                                                            | Not present                               |         |
| - CHOICE RLC info type - CHOICE Uplink RLC mode                                          | RLC info AM RLC                           |         |
| - Transmission RLC discard                                                               | AWINLO                                    |         |
| - SDU discard mode                                                                       | No Discard                                |         |
| - MAX_DAT                                                                                | 15                                        |         |
| - Transmission window size                                                               | 32                                        |         |
| - Timer_RST                                                                              | 500                                       |         |
| - Max_RST                                                                                | 1                                         |         |
| - Polling info                                                                           |                                           |         |
| - Timer_poll_prohibit                                                                    | 200                                       |         |
| - Timer_poll                                                                             | 200                                       |         |
| - Poll_PDU                                                                               | Not Present                               |         |
| - Poll_SDU                                                                               | 1                                         |         |
| <ul> <li>Last transmission PDU poll</li> </ul>                                           | TRUE                                      |         |
| <ul> <li>Last retransmission PDU poll</li> </ul>                                         | TRUE                                      |         |
| - Poll_Windows                                                                           | 99                                        |         |
| - Timer_poll_periodic                                                                    | Not Present                               |         |
| - CHOICE Downlink RLC mode                                                               | AM RLC                                    |         |
| - In-sequence delivery                                                                   | TRUE                                      |         |
| Receiving window size     Downlink RLC status info                                       | 32                                        |         |
| - Downlink RLC status into - Timer_status_prohibit                                       | 200                                       |         |
| - Timer_status_pronibit<br>- Timer_EPC                                                   | Not Present                               |         |
| - Missing PDU indicator                                                                  | TRUE                                      |         |
| - Timer_STATUS_periodic                                                                  | Not Present                               |         |
| - RB mapping info                                                                        |                                           |         |
| - Information for each multiplexing option                                               | 2 RBMuxOptions                            |         |
| - RLC logical channel mapping indicator                                                  | Not Present                               |         |
| - Number of uplink RLC logical channels                                                  | 1                                         |         |
| - Uplink transport channel type                                                          | DCH                                       |         |
| - UL Transport channel identity                                                          | 5                                         |         |
| - Logical channel identity                                                               | 3                                         |         |
| - CHOICE RLC size list                                                                   | Configured                                |         |
| - MAC logical channel priority                                                           | 3                                         |         |
| - Downlink RLC logical channel info                                                      |                                           |         |
| - Number of downlink RLC logical channels                                                | 1                                         |         |
| - Downlink transport channel type                                                        | DCH                                       |         |
| - DL DCH Transport channel identity                                                      | 10<br>Not Present                         |         |
| <ul> <li>DL DSCH Transport channel identity</li> <li>Logical channel identity</li> </ul> | Not Present                               |         |
| RLC logical channel mapping indicator                                                    | Not Present                               |         |
| Number of uplink RLC logical channels                                                    | 1                                         |         |
| - Uplink transport channel type                                                          | RACH                                      |         |
| - UL DCH Transport channel identity                                                      | Not Present                               |         |
| - Logical channel identity                                                               | 3                                         |         |
| - CHOICE RLC size list                                                                   | Explicit list                             |         |
| - RLC size index                                                                         | According to TS34.108 clause 6.10.2.4.4.1 |         |
| <ul> <li>MAC logical channel priority</li> </ul>                                         | 3                                         |         |
| - Downlink RLC logical channel info                                                      |                                           |         |
| <ul> <li>Number of downlink RLC logical channels</li> </ul>                              | 1                                         |         |
| - Downlink transport channel type                                                        | FACH                                      |         |
| - DL DCH Transport channel identity                                                      | Not Present                               |         |
| - DL DSCH Transport channel identity                                                     | Not Present                               |         |
| - Logical channel identity                                                               | 3                                         |         |
| - Signalling RB information to setup                                                     | (AM DCCH for NAS_DT Low priority)         |         |
| - RB identity                                                                            | Not Present                               | I       |

| Information Element                                                         | Value/remark                                       | Version |
|-----------------------------------------------------------------------------|----------------------------------------------------|---------|
| - CHOICE RLC info type                                                      | RLC info                                           |         |
| - CHOICE Uplink RLC mode                                                    | AM RLC                                             |         |
| - Transmission RLC discard                                                  |                                                    |         |
| - SDU discard mode                                                          | No Discard                                         |         |
| - MAX_DAT                                                                   | 15                                                 |         |
| - Transmission window size                                                  | 32                                                 |         |
| - Timer_RST                                                                 | 500                                                |         |
| - Max_RST                                                                   | 1                                                  |         |
| <ul><li>Polling info</li><li>Timer_poll_prohibit</li></ul>                  | 200                                                |         |
| - Timer_poil_profilibit                                                     | 200                                                |         |
| - Poll_PDU                                                                  | Not Present                                        |         |
| - Poll_SDU                                                                  | 1                                                  |         |
| - Last transmission PDU poll                                                | TRUE                                               |         |
| - Last retransmission PDU poll                                              | TRUE                                               |         |
| - Poll_Windows                                                              | 99                                                 |         |
| - Timer_poll_periodic                                                       | Not Present                                        |         |
| - CHOICE Downlink RLC mode                                                  | AM RLC                                             |         |
| - In-sequence delivery                                                      | TRUE                                               |         |
| - Receiving window size                                                     | 32                                                 |         |
| - Downlink RLC status info                                                  | 200                                                |         |
| - Timer_status_prohibit                                                     | 200<br>Not Present                                 |         |
| - Timer_EPC - Missing PDU indicator                                         | TRUE                                               |         |
| - Timer_STATUS_periodic                                                     | Not Present                                        |         |
| - RB mapping info                                                           | Not i resent                                       |         |
| - Information for each multiplexing option                                  | 2 RBMuxOptions                                     |         |
| - RLC logical channel mapping indicator                                     | Not Present                                        |         |
| - Number of uplink RLC logical channels                                     | 1                                                  |         |
| - Uplink transport channel type                                             | DCH                                                |         |
| <ul> <li>UL Transport channel identity</li> </ul>                           | 5                                                  |         |
| - Logical channel identity                                                  | 4                                                  |         |
| - CHOICE RLC size list                                                      | Configured                                         |         |
| - MAC logical channel priority                                              | 4                                                  |         |
| - Downlink RLC logical channel info                                         | 1                                                  |         |
| Number of downlink RLC logical channels     Downlink transport channel type | 1<br>  DCH                                         |         |
| - DL DCH Transport channel identity                                         | 10                                                 |         |
| - DL DSCH Transport channel identity                                        | Not Present                                        |         |
| - Logical channel identity                                                  | 4                                                  |         |
| - RLČ logical channel mapping indicator                                     | Not Present                                        |         |
| <ul> <li>Number of uplink RLC logical channels</li> </ul>                   | 1                                                  |         |
| <ul> <li>Uplink transport channel type</li> </ul>                           | RACH                                               |         |
| - UL Transport channel identity                                             | Not Present                                        |         |
| - Logical channel identity                                                  | 4                                                  |         |
| - CHOICE RLC size list                                                      | Explicit list                                      |         |
| - RLC size index - MAC logical channel priority                             | According to TS34.108 clause 6.10.2.4.4.1          |         |
| - MAC logical channel priority - Downlink RLC logical channel info          | -                                                  |         |
| - Number of downlink RLC logical channels                                   | 1                                                  |         |
| - Downlink transport channel type                                           | FACH                                               |         |
| - DL DCH Transport channel identity                                         | Not Present                                        |         |
| <ul> <li>DL DSCH Transport channel identity</li> </ul>                      | Not Present                                        |         |
| - Logical channel identity                                                  | 4                                                  |         |
| UL Transport channel information for all transport                          |                                                    |         |
| channels                                                                    | Not December                                       |         |
| - PRACH TFCS                                                                | Not Present                                        |         |
| - CHOICE Mode<br>- TFC subset                                               | FDD<br>Not Present                                 |         |
| - UL DCH TFCS                                                               | INOUT TESETIL                                      |         |
| - CHOICE TFCI signalling                                                    | Normal                                             |         |
| - TFCI Field 1 information                                                  | 1.50mmar                                           |         |
| - CHOICE TFCS representation                                                | Complete                                           |         |
| - TFCS complete reconfigure                                                 | · ·                                                |         |
| - CHOICE CTFC Size                                                          | 2bit CTFC                                          |         |
| - CTFC information                                                          | This IE is repeated for TFC numbers according to   |         |
|                                                                             | TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps |         |

| Information Element                                                     | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Version |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                                                         | signalling radio bearer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CTFC                                                                  | According to TS34.108 clause 6.10.2.4.1.3 (standalone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
|                                                                         | 13.6 kbps signalling radio bearer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| <ul> <li>Power offset information</li> </ul>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - CHOICE Gain Factors                                                   | Computed Gain Factors (The last TFC is set to Signalled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|                                                                         | Gain Factors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Gain factor ßc                                                        | 11 (below 64 kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
|                                                                         | 9 (higher than 64 kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
|                                                                         | (Not Present if the above is set to Computed Gain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| Cain factor () d                                                        | Factors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Gain factor ßd                                                        | (Not Present if the above is set to Computed Cain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|                                                                         | (Not Present if the above is set to Computed Gain Factors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Reference TFC ID                                                      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - CHOICE mode                                                           | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - Power offset Pp-m                                                     | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Added or Reconfigured TrCH information list                             | TS 25.331 specifies that "Although this IE is not required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| , tadad ar reasoningurad rear intermediation                            | when the IE "RRC state indicator" is set to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
|                                                                         | "CELL_FACH", need is MP to align with ASN.1"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Added or Reconfigured UL TrCH information                             | , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , , |         |
| - Uplink transport channel type                                         | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - UL Transport channel identity                                         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - TFS                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - CHOICE Transport channel type                                         | Dedicated transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| <ul> <li>Dynamic Transport format information</li> </ul>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - RLC Size                                                              | Value 16 results in an RLC size of 144 bits;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
|                                                                         | OctetModeType1 ((8*sizeType1)+16).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - Number of TBs and TTI List                                            | List with single entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - Transmission Time Interval                                            | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - Number of Transport blocks                                            | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - CHOICE Logical Channel List                                           | ALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - Semi-static Transport Format information - Transmission time interval | 40 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| - Type of channel coding                                                | Convolutional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Coding Rate                                                           | 1/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - Rate matching attribute                                               | 160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CRC size                                                              | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| DL Transport channel information common for all                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| transport channel                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - SCCPCH TFCS                                                           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - CHOICE mode                                                           | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CHOICE DL parameters                                                  | Same as UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| Added or Reconfigured TrCH information list                             | TS 25.331 specifies that "Although this IE is not required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
|                                                                         | when the IE "RRC state indicator" is set to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| A 11 1 D (1 1D) T (11) ( 1                                              | "CELL_FACH", need is MP to align with ASN.1"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Added or Reconfigured DL TrCH information                             | DOLL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Downlink transport channel type                                       | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - DL Transport channel identity                                         | 10<br>Same as UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| - CHOICE DL parameters - Uplink Transport channel type                  | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - UL TrCH identity                                                      | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - DCH quality target                                                    | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Frequency info                                                          | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Maximum allowed UL TX power                                             | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| CHOICE channel requirement                                              | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Downlink information common for all radio links                         | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Downlink information for each radio link list                           | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |

# Contents of RRC CONNECTION SETUP COMPLETE message: AM

| Information Element                  | Value/remark                                               |
|--------------------------------------|------------------------------------------------------------|
| Message Type                         |                                                            |
| RRC transaction identifier           | The value of this IE is checked to see that it matches the |
|                                      | value of the same IE transmitted in the downlink RRC       |
|                                      | CONNECTION SETUP message.                                  |
| START list                           | Not checked (if ciphering is OFF), check the presence if   |
|                                      | ciphering is ON.                                           |
| UE radio access capability           | Not checked                                                |
| UE radio access capability extension | Not checked                                                |
| UE system specific capability        | Not checked                                                |

# Contents of RRC STATUS message: AM

| Information Element                | Value/remark                                                                                                                                                                                         |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                       |                                                                                                                                                                                                      |
| Integrity check info               |                                                                                                                                                                                                      |
| - Message authentication code      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Identification of received message | Not Checked                                                                                                                                                                                          |
| Protocol error information         |                                                                                                                                                                                                      |
| - Protocol error cause             | Refer to test requirement.                                                                                                                                                                           |

# Contents of SECURITY MODE COMMAND message: AM

| RRC transaction identifier Integrity check info  - Message authentication code  - RRC Message Sequence Number  Security capability  - Ciphering algorithm capability  - UEA0  - UEA1  - UEA1  - Sare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - UIA1  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence number - RB identity - RC sequence n | Information Element                          | Condition | Value/remark                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------|------------------------------------------------|
| Integrity check info  - Message authentication code  - RRC Message Sequence Number  Security capability - Ciphering algorithm capability - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection find before the find capability - UIA1  - Spare  Ciphering mode info  - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB i | Message Type                                 | A1, A2    |                                                |
| - Message authentication code - RRC Message Sequence Number - RRC Message Sequence Number - RRC Message Sequence Number - RRC Message Sequence Number - Ciphering algorithm capability - UEA0 - UEA1 - UEA1 - UEA1 - UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - Ciphering mode info - Ciphering adjorithm - Ciphering adjorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB id | RRC transaction identifier                   |           | Arbitrarily selects an integer between 0 and 3 |
| First/ leftmost bit of the bits tring contains the most significant bit of the bits tring contains the most significant bit of the MAC-I. Set to an arbitrarily selected integer between 0 and 15  Security capability - Ciphering algorithm capability - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Raido bearer activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RCC Seq |                                              |           |                                                |
| - RRC Message Sequence Number  Security capability - Ciphering algorithm capability - UEA0  If the UE has indicated support for ciphering algorithm UEA0 in the IE 'security capability' in the RRC CONNECTION SETUP' COMPLETE message, this lie is set to TRUE.  - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity  | - Message authentication code                |           |                                                |
| Security capability Ciphering algorithm capability - UEA0  - UEA1  - Spare Integrity protection algorithm capability - UIA1 - Spare Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL Sequence number - RB identity - RL C sequence number - RB identity - RL C sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RB identity - RB id |                                              |           |                                                |
| Security capability - Ciphering algorithm capability - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare  Ciphering mode info  - Ciphering and spare 2-15 = FALSE 000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |           |                                                |
| Security capability  - Ciphering algorithm capability  - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - Ciphering mode info  - Ciphering mode info  - Ciphering and command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB ide | - RRC Message Sequence Number                |           |                                                |
| - Ciphering algorithm capability - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Radio bearer downlink ciphering activation time info - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RCC | 0 11 1111                                    |           | 0 and 15                                       |
| - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - UIA1  - Spare - Integrity protection algorithm capability - Ciphering mode info  - Ciphering mode info  - Ciphering and command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence n |                                              |           |                                                |
| algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare  Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity |                                              |           | If the LIE has indicated support for sinhering |
| - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info  - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm  - Ciphering algor | - UEAU                                       |           |                                                |
| - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC Sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity  |                                              |           |                                                |
| - UEA1  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm Ciphering algorithm - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm LEA1 in the IE 'security - Ciphering algorithm LEA1 in the IE 'security - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm - Ciphering - Ciphering algorithm - Ciphering - Ciphering algorithm - Ciphering - Ciphering algorithm - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Ciphering - Cipher |                                              |           |                                                |
| - UEA1  - UEA1  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - Radio bearer activation - Radio bearer activation - Current RLC SN - Current RLC SN - Current RLC SN |                                              |           |                                                |
| algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. Spare 2-15 = FALSE 00000000000010B (UIA1) TRUE. Spare 2-15 = FALSE 00000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34-123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. Start/restant UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Not Present  1 Current RLC SN SETUP COMPLETE message. Not Present  1 Current RLC SN SETUP COMPLETE message. Not Present  1 Current RLC SN SETUP COMPLETE message. Not Present  1 Current RLC SN SETUP COMPLETE message. Not Present  1 Current RLC SN SETUP COMPLETE message. Not Present  1 Current RLC SN SETUP COMPLETE message. Not Present UEA0 or UEA1. The indicated algorithm must be the same as the algorithms supported by the UE as alignment of the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Not Present UEA0 or UEA1. The indicated algorithm must be the same as the algorithms supported by the UE as alignment of the IE security capability and the IE "security capability and the IE "security capability and the IE security capa | - UEA1                                       |           | _                                              |
| - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - CHORD system - GSM security capability - CHORD system - RE algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |           |                                                |
| - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC seque |                                              |           |                                                |
| - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence num |                                              |           | COMPLETE message, this IE is set to            |
| - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below.  Else, this IE is dependent on IXIT - Start/restart - UEA0 or UEA1. The indicated algorithm - Ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below.  Else, this IE is dependent on IXIT - LEA0 or UEA1. The indicated algorithm - Ciphering is indicated in the Xitary capability - CHOICE system - Ciphering algorithm - Cip |                                              |           |                                                |
| - UIA1 - Spare Ciphering mode info  Ciphering mode info  Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC se |                                              |           |                                                |
| Spare 0 and Spare 2-15 = FALSE Ciphering mode info  Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE is omitted. Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.  Not Present  1 Current RLC SN 2 Current RLC SN 2 RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RC identity RB identity R |                                              |           |                                                |
| Ciphering mode info  This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.  Ciphering algorithm  Ciphering algorithm  Ciphering algorithm  Ciphering algorithm  Ciphering activation time for DPCH  Radio bearer downlink ciphering activation time info  Radio bearer activation time  RB identity  RLC sequence number  RB identity  Current RLC SN  Current RLC SN  Current RLC SN  4  Current RLC SN  4  Current RLC SN  SEATUP COMPLETE message.  Not Present  Current RLC SN  Current RLC SN  Current RLC SN  SEATUP COMPLETE message.  Not Present  1  Current RLC SN  Current RLC SN  SEATUP COMPLETE message.  Not Present  1  Current RLC SN  SEATUP COMPLETE message.  Not Present  1  Current RLC SN  SEATUP COMPLETE message.  Not Present  UIA1  Seate an arbitrary 32 bits number for FRESH  CS or PS  Not Checked  The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                            |           |                                                |
| statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.  Start/restart  UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.  - Ciphering activation time for DPCH - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - Current RLC SN - Current |                                              |           |                                                |
| - Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC SN - Current RLC SN - Current RLC SN - Current RLC SN - Current RLC SN - Start - Current RLC SN - Current RLC SN - Start - Current RLC SN - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Start - Current RLC SN - Start - Start - | Cipnering mode into                          |           |                                                |
| the values of the sub IEs as stated below. Else, this IE is omitted. Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.  Ciphering activation time for DPCH Radio bearer activation time RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RC sequence number RB identity A1 Selects an arbitrary 32 bits number for FRESH CS or PS Not Checked  GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |           |                                                |
| - Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - Radio bearer activated in the IE 'security Capability - Current RLC SN - Current RLC SN - Current RLC SN - Current RLC SN - Stat - Current RLC SN - Stat - Not Present - UIA1 - Ss selects an arbitrary 32 bits number for FRESH - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or PS - Not Checked - CS or  |                                              |           |                                                |
| - Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity - Current RLC SN - Current RLC SN - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Current RLC SN - A - Curre |                                              |           |                                                |
| - Ciphering algorithm  But Based or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - Current RLC SN - Current RLC SN - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Not Present - UIA1 - SS selects an arbitrary 32 bits number for FRESH - CS or PS - Not Checked - SS or PS - Not Checked - SSM - CHOICE system - GSM security capability - CHOICE system - GSM security capability - GSM security capability - CHOICE system - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - Ciphering mode command                     |           |                                                |
| must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity - Current RLC SN - Current RLC SN - Current RLC SN - Variable Start -  |                                              |           |                                                |
| the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.  - Ciphering activation time for DPCH - Radio bearer activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |           |                                                |
| - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity - CN domain identity - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |           | the UE as indicated in the IE "security        |
| - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - Integrity protection initialisation number - CN domain identity - UE system specific security capability - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |           |                                                |
| - Radio bearer downlink ciphering activation time info  - Radio bearer activation time  - RB identity  - RLC sequence number  - Integrity protection mode command  - Downlink integrity protection activation info  - Integrity protection algorithm  - Integrity protection initialisation number  CN domain identity  UE system specific security capability  - Inter-RAT UE security capability  - CHOICE system  - GSM security capability  - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |           |                                                |
| info Radio bearer activation time RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RB Sequence number RB identity RB Sequence number RB identity RB Sequence number RB identity RB Sequence number RB identity RB Sequence number RB identity RB Sequence number RB identity RB Sequence number RB identity RB Sequence number RB Current RLC SN Current RLC SN Start RB GEN Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH CS or PS Not Checked RB Sequence number RB Sequence number RB identity A1 Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH CS or PS Not Checked RB GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |           | Not Present                                    |
| - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - Integrity protection initialisation number - RLC SN - CS or PS - Not Checked - CS or PS - Not Checked - GSM security capability - CHOICE system - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | , ,                                          |           |                                                |
| - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity - CN domain identity - CHOICE system - GSM security capability - CHOICE system - GSM security capability - GSM security capability - CHOICE system - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |           |                                                |
| RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number RB identity RLC sequence number Integrity protection mode info Integrity protection mode command Downlink integrity protection activation info Integrity protection algorithm Integrity protection initialisation number  CN domain identity RCS or PS UE system specific security capability Inter-RAT UE security capability CHOICE system GSM GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |           | 1                                              |
| - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity - Inter-RAT UE security capability - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - Inter-RAT UE security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |           | Current RLC SN                                 |
| - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |           |                                                |
| - RB identity - RLC sequence number - RB identity - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |           | I=                                             |
| - RLC sequence number - RB identity - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |           |                                                |
| - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |           | Current RLC SN                                 |
| Integrity protection mode info  - Integrity protection mode command  - Downlink integrity protection activation info  - Integrity protection algorithm  - Integrity protection initialisation number  CN domain identity  UE system specific security capability  - Inter-RAT UE security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability  - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - RB identity                                |           | 4                                              |
| - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - RLC sequence number                        |           | Current RLC SN                                 |
| - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability  GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Integrity protection mode info               |           |                                                |
| - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |           |                                                |
| - Integrity protection initialisation number  CN domain identity  UE system specific security capability  - Inter-RAT UE security capability  - CHOICE system  - GSM security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |           |                                                |
| CN domain identity UE system specific security capability A1 UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |           | -                                              |
| CN domain identity  UE system specific security capability  A1  Not Checked  Not Checked  A2  Inter-RAT UE security capability  CS or PS  Not Checked  A2  GSM  GSM  GSM  The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - integrity protection initialisation number |           |                                                |
| UE system specific security capability  UE system specific security capability  Inter-RAT UE security capability  CHOICE system  GSM  GSM  The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CN domain identity                           |           |                                                |
| UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability  GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              | Δ1        |                                                |
| - Inter-RAT UE security capability - CHOICE system - GSM security capability  GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |           | THE STICKED                                    |
| - CHOICE system - GSM security capability  GSM The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              | , ,_      |                                                |
| - GSM security capability  The indicated algorithms must be the same as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |           | GSM                                            |
| as the algorithms supported by the UE as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |           |                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |           |                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |           | indicated in the IE " UE system specific       |
| capability " in the RRC CONNECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |           |                                                |
| SETUP COMPLETE message.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |           | SETUP COMPLETE message.                        |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

#### Contents of SECURITY MODE COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.                                                           |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                         |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in SECURITY MODE                                                                                                                                                       |
|                                                    | COMMAND message, this IE must be absent. Else, SS                                                                                                                                                    |
|                                                    | checks this IE for the presence of activation times for all                                                                                                                                          |
|                                                    | ciphered uplink RLC-UM and RLC-AM RBs.                                                                                                                                                               |

# Contents of SECURITY MODE FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message.                                                                                           |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Refer to test requirement.                                                                                                                                                                           |

# Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

| Information Element                             | Condition   | Value/remark                                   | Version |
|-------------------------------------------------|-------------|------------------------------------------------|---------|
| Message Type                                    | A1, A2, A3, |                                                |         |
|                                                 | A4, A5, A6  |                                                |         |
| RRC transaction identifier                      |             | Arbitrarily selects an integer between 0 and 3 |         |
| Integrity check info                            |             |                                                |         |
| - message authentication code                   |             | SS calculates the value of MAC-I for           |         |
| -                                               |             | this message and writes to this IE. The        |         |
|                                                 |             | first/ leftmost bit of the bit string          |         |
|                                                 |             | contains the most significant bit of the       |         |
|                                                 |             | MAC-I.                                         |         |
| <ul> <li>RRC message sequence number</li> </ul> |             | SS provides the value of this IE, from         |         |
|                                                 |             | its internal counter.                          |         |
| Integrity protection mode info                  |             | Not Present                                    |         |
| Ciphering mode info                             |             | Not Present                                    |         |
| Activation time                                 | A1, A2, A3  | (256+CFN-(CFN MOD 8 + 8))MOD 256               |         |
| Activation time                                 | A4, A5, A6  | Not Present                                    |         |
| New U-RNTI                                      |             | Not Present                                    |         |
| New C-RNTI                                      | A1, A2, A3, | Not Present                                    |         |
|                                                 | A4          |                                                |         |

| A5, A6 A1, A2, A3, A4, A5, A6 A1, A2, A3, A4, A5, A6 A1, A2, A3, A4 A5, A6 A1, A2, A3, A4 A5, A6 A1, A2, A3, A4,A5,A6  A1, A2, A3, A4,A5,A6 | '1010 1010 1010 1010'  Not Present  CELL_DCH  CELL_FACH  Not Present   REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A4, A5, A6 A1, A2, A3, A4, A5, A6 A1, A2, A3, A4 A5, A6 A1, A2, A3, A4 A5, A6 A1, A2, A3, A4, A5, A6                                        | Not Present  CELL_DCH  CELL_FACH  Not Present  Not Present Not Present Not Present Not Present                                                                               | REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A1, A2, A3,<br>A4, A5, A6<br>A1, A2, A3,<br>A4<br>A5, A6<br>A1, A2, A3,<br>A4,A5,A6                                                         | CELL_DCH  CELL_FACH  Not Present  Not Present  Not Present  Not Present  Not Present                                                                                         | REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A4, A5, A6 A1, A2, A3, A4 A5, A6 A1, A2, A3, A4,A5,A6  A1, A2, A5, A6                                                                       | CELL_DCH  CELL_FACH  Not Present  Not Present  Not Present  Not Present  Not Present                                                                                         | REL-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A1, A2, A3,<br>A4<br>A5, A6<br>A1, A2, A3,<br>A4,A5,A6<br>A1, A2, A5,<br>A6                                                                 | CELL_FACH Not Present Not Present Not Present Not Present Not Present                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A4<br>A5, A6<br>A1, A2, A3,<br>A4,A5,A6<br>A1, A2, A5,<br>A6                                                                                | CELL_FACH Not Present Not Present Not Present Not Present Not Present                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A5, A6<br>A1, A2, A3,<br>A4,A5,A6<br>A1, A2, A5,<br>A6                                                                                      | Not Present Not Present Not Present Not Present Not Present                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A1, A2, A3,<br>A4,A5,A6<br>A1, A2, A5,<br>A6                                                                                                | Not Present Not Present Not Present Not Present Not Present                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A4,A5,A6  A1, A2, A5, A6                                                                                                                    | Not Present<br>Not Present<br>Not Present                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A1, A2, A5,<br>A6                                                                                                                           | Not Present<br>Not Present                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A6                                                                                                                                          | Not Present<br>Not Present                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A6                                                                                                                                          | Not Present                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A6                                                                                                                                          |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A6                                                                                                                                          | Not Present                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A6                                                                                                                                          |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Δ3 Δ1                                                                                                                                       |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| $\Lambda U, \Lambda T$                                                                                                                      |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ,                                                                                                                                           |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Not Present                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | FDD                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Not Present                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Normal                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Complete reconfiguration                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Number of bits used must be enough to                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | TS34.108 clause 6.10.2.4 Parameter                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Set.                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | This IE is repeated for TFC numbers                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | 6.10.2.4 Parameter Set                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Reference to TS34.108 clause 6.10.2.4                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Parameter Set                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | Computed Gain Factors (The last TFC                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | ·                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | 1                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | 1                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Λ1 Λ2 ΛE                                                                                                                                    |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                             | A1, A2, A5,<br>A6                                                                                                                                                            | Not Present FDD Not Present  Normal  Complete reconfiguration  Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors (The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors) 0 FDD Not Present  A1, A2, A5, Not Present |

| Information Element                                                        | Condition | Value/remark                                        | Version |
|----------------------------------------------------------------------------|-----------|-----------------------------------------------------|---------|
| Added or Reconfigured UL TrCH information                                  | A4        | 2 TrCHs(DCH for DCCH and DCH for                    | 1 5.5.5 |
| <u> </u>                                                                   |           | DTCH)                                               |         |
| <ul> <li>Uplink transport channel type</li> </ul>                          |           | DCH '                                               |         |
| <ul> <li>UL Transport channel identity</li> </ul>                          |           | 5                                                   |         |
| - TFS                                                                      |           |                                                     |         |
| - CHOICE Transport channel type                                            |           | Dedicated transport channels                        |         |
| - Dynamic Transport format information                                     |           | D-f t- T004 400 -l 0 40                             |         |
| - RLC Size                                                                 |           | Reference to TS34.108 clause 6.10                   |         |
| - Number of TBs and TTI List                                               |           | Parameter Set (This IE is repeated for TFI number.) |         |
| - Transmission Time Interval                                               |           | Not Present                                         |         |
| - Number of Transport blocks                                               |           | Reference to TS34.108 clause 6.10                   |         |
|                                                                            |           | Parameter Set                                       |         |
| - CHOICE Logical Channel list                                              |           | All                                                 |         |
| - Semi-static Transport Format information                                 |           |                                                     |         |
| - Transmission time interval                                               |           | Reference to TS34.108 clause 6.10                   |         |
| _ , , , ,                                                                  |           | Parameter Set                                       |         |
| - Type of channel coding                                                   |           | Reference to TS34.108 clause 6.10                   |         |
| Coding Data                                                                |           | Parameter Set                                       |         |
| - Coding Rate                                                              |           | Reference to TS34.108 clause 6.10 Parameter Set     |         |
| - Rate matching attribute                                                  |           | Reference to TS34.108 clause 6.10                   |         |
| Trate matering attribute                                                   |           | Parameter Set                                       |         |
| - CRC size                                                                 |           | Reference to TS34.108 clause 6.10                   |         |
|                                                                            |           | Parameter Set                                       |         |
| - Uplink transport channel type                                            |           | DCH                                                 |         |
| - UL Transport channel identity                                            |           | 1                                                   |         |
| - TFS                                                                      |           |                                                     |         |
| - CHOICE Transport channel type                                            |           | Dedicated transport channels                        |         |
| - Dynamic Transport format information                                     |           | D ( T004 400 1                                      |         |
| - RLC Size                                                                 |           | Reference to TS34.108 clause 6.10                   |         |
| - Number of TBs and TTI List                                               |           | Parameter Set (This IE is repeated for TFI number.) |         |
| - Transmission Time Interval                                               |           | Not Present                                         |         |
| - Number of Transport blocks                                               |           | Reference to TS34.108 clause 6.10                   |         |
|                                                                            |           | Parameter Set                                       |         |
| - CHOICE Logical Channel list                                              |           | All                                                 |         |
| - Semi-static Transport Format information                                 |           |                                                     |         |
| - Transmission time interval                                               |           | Reference to TS34.108 clause 6.10                   |         |
| Towns of shown should be discussed                                         |           | Parameter Set                                       |         |
| - Type of channel coding                                                   |           | Reference to TS34.108 clause 6.10                   |         |
| - Coding Rate                                                              |           | Parameter Set Reference to TS34.108 clause 6.10     |         |
| - Coding Nate                                                              |           | Parameter Set                                       |         |
| - Rate matching attribute                                                  |           | Reference to TS34.108 clause 6.10                   |         |
| Tato matoring attribute                                                    |           | Parameter Set                                       |         |
| - CRC size                                                                 |           | Reference to TS34.108 clause 6.10                   |         |
|                                                                            |           | Parameter Set                                       |         |
| Added or Reconfigured UL TrCH information                                  | A3        | (DCH for DTCH)                                      |         |
| - Uplink transport channel type                                            |           | DCH                                                 |         |
| - UL Transport channel identity                                            |           | 1                                                   |         |
| - TFS                                                                      |           | Dedicated transport shares is                       |         |
| - CHOICE Transport channel type     - Dynamic Transport format information |           | Dedicated transport channels                        |         |
| - RLC Size                                                                 |           | Reference to TS34.108 clause 6.10                   |         |
| 1120 0120                                                                  |           | Parameter Set                                       |         |
| - Number of TBs and TTI List                                               |           | (This IE is repeated for TFI number.)               |         |
| - Transmission Time Interval                                               |           | Not Present                                         |         |
| - Number of Transport blocks                                               |           | Reference to TS34.108 clause 6.10                   |         |
|                                                                            |           | Parameter Set                                       |         |
| - CHOICE Logical Channel list                                              |           | All                                                 |         |
| - Semi-static Transport Format information                                 |           | B ( , T00 / 100 )                                   |         |
| - Transmission time interval                                               |           | Reference to TS34.108 clause 6.10                   |         |
| - Type of channel coding                                                   |           | Parameter Set Reference to TS34.108 clause 6.10     |         |
| - Type of Granner County                                                   |           | Parameter Set                                       |         |
| - Coding Rate                                                              |           | Reference to TS34.108 clause 6.10                   |         |
| 2003                                                                       | 1         |                                                     |         |

| Information Element                                               | Condition             | Value/remark                                                  | Version |
|-------------------------------------------------------------------|-----------------------|---------------------------------------------------------------|---------|
| - Rate matching attribute                                         |                       | Parameter Set Reference to TS34.108 clause 6.10 Parameter Set |         |
| - CRC size                                                        |                       | Reference to TS34.108 clause 6.10 Parameter Set               |         |
| CHOICE mode                                                       | A1,A2,A3,<br>A4,A5,A6 | FDD                                                           |         |
| - CPCH set ID                                                     |                       | Not Present                                                   |         |
| Added or Reconfigured TrCH information for DRAC list              |                       | Not Present                                                   |         |
| DL Transport channel information common for all transport channel | A1, A2,<br>A5,A6      | Not Present                                                   |         |
| DL Transport channel information common for                       | A3,A4                 |                                                               |         |
| all transport channel - SCCPCH TFCS                               |                       | Not Present                                                   |         |
| - CHOICE mode                                                     |                       | FDD                                                           |         |
| - CHOICE DL parameters                                            |                       | Explicit                                                      |         |
| - DL DCH TFCS                                                     |                       | Exprior                                                       |         |
| - CHOICE TFCI Signalling                                          |                       | Normal                                                        |         |
| - TFCI Field 1 Information                                        |                       |                                                               |         |
| - CHOICE TFCS representation                                      |                       | Complete reconfiguration                                      |         |
| - TFCS complete reconfigure                                       |                       |                                                               |         |
| - CHOICE CTFC Size                                                |                       | Number of bits used must be enough to                         |         |
|                                                                   |                       | cover all combinations of CTFC from                           |         |
|                                                                   |                       | clause TS34.108 clause 6.10.2.4                               |         |
|                                                                   |                       | Parameter Set.                                                |         |
| - CTFC information                                                |                       | This IE is repeated for TFC numbers                           |         |
|                                                                   |                       | and reference to TS34.108 clause                              |         |
|                                                                   |                       | 6.10.2.4                                                      |         |
| - CTFC                                                            |                       | Reference to TS34.108 clause 6.10.2.4                         |         |
| 5 "                                                               |                       | Parameter Set                                                 |         |
| - Power offset information                                        | A4 A0 A5              | Not Present                                                   |         |
| Added or Reconfigured DL TrCH information                         | A1, A2, A5,<br>A6     | Not Present                                                   |         |

| Information Element                                      | Condition | Value/remark                                    | Version |
|----------------------------------------------------------|-----------|-------------------------------------------------|---------|
| Added or Reconfigured DL TrCH information                | A4        | 2 TrCHs(DCH for DCCH and DCH for                |         |
|                                                          |           | DTCH) `                                         |         |
| <ul> <li>Downlink transport channel type</li> </ul>      |           | DCH                                             |         |
| <ul> <li>DL Transport channel identity</li> </ul>        |           | 10                                              |         |
| - CHOICE DL parameters                                   |           | Same as UL                                      |         |
| <ul> <li>Uplink transport channel type</li> </ul>        |           | DCH                                             |         |
| - UL TrCH identity                                       |           | 5                                               |         |
| - DCH quality target                                     |           |                                                 |         |
| - BLER Quality value                                     |           | Not Present                                     |         |
| - Downlink transport channel type                        |           | DCH                                             |         |
| - DL Transport channel identity                          |           | 6                                               |         |
| - CHOICE DL parameters - TFS                             |           | Explicit                                        |         |
| - CHOICE Transport channel type                          |           | Dedicated transport channel                     |         |
| - Dynamic transport format information                   |           | Dedicated transport charmer                     |         |
| - RLC Size                                               |           | Reference to TS34.108 clause 6.10               |         |
| 1120 0120                                                |           | Parameter Set                                   |         |
| - Number of TBs and TTI List                             |           | (This IE is repeated for TFI number.)           |         |
| - Dynamic transport format information                   |           | (                                               |         |
| - Transmission Time Interval                             |           | Not Present                                     |         |
| - Number of Transport blocks                             |           | Reference to TS34.108 clause 6.10               |         |
| , '                                                      |           | Parameter Set                                   |         |
| - Semi-static Transport Format information               |           |                                                 |         |
| - Transmission time interval                             |           | Reference to TS34.108 clause 6.10               |         |
|                                                          |           | Parameter Set                                   |         |
| - Type of channel coding                                 |           | Reference to TS34.108 clause 6.10               |         |
|                                                          |           | Parameter Set                                   |         |
| - Coding Rate                                            |           | Reference to TS34.108 clause 6.10               |         |
| <b>-</b>                                                 |           | Parameter Set                                   |         |
| - Rate matching attribute                                |           | Reference to TS34.108 clause 6.10               |         |
| 000 -:                                                   |           | Parameter Set                                   |         |
| - CRC size                                               |           | Reference to TS34.108 clause 6.10               |         |
| - DCH quality target                                     |           | Parameter Set                                   |         |
| - BLER Quality value                                     |           | -2.0                                            |         |
| Added or Reconfigured DL TrCH information                | A3        | 2.0                                             |         |
| - Downlink transport channel type                        | 7.0       | DCH                                             |         |
| - DL Transport channel identity                          |           | 6                                               |         |
| - CHOICE DL parameters                                   |           | Explicit                                        |         |
| - TFS                                                    |           |                                                 |         |
| <ul> <li>CHOICE Transport channel type</li> </ul>        |           | Dedicated transport channel                     |         |
| <ul> <li>Dynamic transport format information</li> </ul> |           |                                                 |         |
| - RLC Size                                               |           | Reference to TS34.108 clause 6.10               |         |
|                                                          |           | Parameter Set                                   |         |
| - Number of TBs and TTI List                             |           | (This IE is repeated for TFI number.)           |         |
| - Dynamic transport format information                   |           | <b>_</b>                                        |         |
| - Transmission Time Interval                             |           | Not Present                                     |         |
| <ul> <li>Number of Transport blocks</li> </ul>           |           | Reference to TS34.108 clause 6.10               |         |
| Comi atatic Transport Format information                 |           | Parameter Set                                   |         |
| - Semi-static Transport Format information               |           | Deference to TCC4 400 slaves 0.40               |         |
| - Transmission time interval                             |           | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Type of channel coding                                 |           | Reference to TS34.108 clause 6.10               |         |
| - Type of channel coding                                 |           | Parameter Set                                   |         |
| - Coding Rate                                            |           | Reference to TS34.108 clause 6.10               |         |
| Journa Rate                                              | 1         | Parameter Set                                   |         |
| - Rate matching attribute                                |           | Reference to TS34.108 clause 6.10               |         |
| Tate matering attribute                                  |           | Parameter Set                                   |         |
| - CRC size                                               |           | Reference to TS34.108 clause 6.10               |         |
|                                                          |           | Parameter Set                                   |         |
| - DCH quality target                                     |           |                                                 |         |
| - BLER Quality value                                     |           | -2.0                                            |         |
| Frequency info                                           | A1,A2,A3, |                                                 |         |
|                                                          | A4,A5     |                                                 |         |
| - UARFCN uplink (Nu)                                     |           | Reference to clause 5.1 Test                    |         |
|                                                          |           | frequencies                                     |         |
| - UARFCN downlink (Nd)                                   |           | Reference to clause 5.1 Test                    |         |

| Information Element                                      | Condition   | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version |
|----------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                                          |             | frequencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| Frequency info                                           | A6          | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| Maximum allowed UL TX power                              | A1,A2,A3,   | 33dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| '                                                        | A4,A5,A6    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| CHOICE channel requirement                               | A5, A6      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| CHOICE channel requirement                               | A1, A2, A3, | Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| ·                                                        | A4          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| -Uplink DPCH power control info                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - DPCCH power offset                                     |             | -80dB (i.e. ASN.1 IE value of -40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - PC Preamble                                            |             | 1 frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| - SRB delay                                              |             | 7 frames                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Power Control Algorithm                                |             | Algorithm1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - TPC step size                                          |             | 1dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - $\Delta$ ACK                                           |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REL-5   |
| - Δ <sub>NACK</sub>                                      |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REL-5   |
| <ul> <li>Ack-Nack repetition factor</li> </ul>           |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REL-5   |
| - Scrambling code type                                   |             | Long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Scrambling code number                                 |             | 0 (0 to 16777215)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Number of DPDCH                                        |             | Not Present(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| - spreading factor                                       |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| TEOL assistance                                          |             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - TFCI existence                                         |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Number of FBI bit                                      |             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - Number of FBI bit                                      |             | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Puncturing Limit                                       |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Functuring Limit                                       |             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| CHOICE Mode                                              | A1,A2,A3,   | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| CHOICE Widde                                             | A4,A5,A6    | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Downlink PDSCH information                             | 714,710,710 | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| Downlink HS-PDSCH Information                            | A1, A2, A3, | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REL-5   |
|                                                          | A4, A5, A6  | THE THE SECOND S |         |
| Downlink information common for all radio links          | A5, A6      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| Downlink information common for all radio links          | A1, A2, A3  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Downlink DPCH info common for all RL                   | , ,         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Timing indicator                                       |             | Maintain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - CFN-targetSFN frame offset                             |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Downlink DPCH power control                            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| information                                              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - DPC mode                                               |             | 0 (single)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CHOICE mode                                            |             | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                  |             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - DL rate matching restriction information               |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Spreading factor                                       |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| Fixed as Florible Desiries                               |             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - Fixed or Flexible Position                             |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - TFCI existence                                         |             | Parameter Set Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - II OI GAISIGIICE                                       |             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - CHOICE SF                                              |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| 3.13.32 31                                               |             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - DPCH compressed mode info                              |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - TX Diversity mode                                      |             | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - SSDT information                                       |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Default DPCH Offset Value                              |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - MAC-hs reset indicator                                 |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REL-5   |
| Downlink information common for all radio links          | A4          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>Downlink DPCH info common for all RL</li> </ul> |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Timing indicator                                       |             | Initialise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CFN-targetSFN frame offset                             |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Downlink DPCH power control                            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| information                                              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - DPC mode                                               |             | 0 (single)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CHOICE mode                                            |             | FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                  |             | 0<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - DL rate matching restriction information               |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Spreading factor                                       |             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |

| Information Element                                                                       | Condition  | Value/remark                                    | Version |
|-------------------------------------------------------------------------------------------|------------|-------------------------------------------------|---------|
|                                                                                           |            | Parameter Set                                   |         |
| - Fixed or Flexible Position                                                              |            | Reference to TS34.108 clause 6.10               |         |
|                                                                                           |            | Parameter Set                                   |         |
| - TFCI existence                                                                          |            | Reference to TS34.108 clause 6.10               |         |
| CHOICE OF                                                                                 |            | Parameter Set                                   |         |
| - CHOICE SF                                                                               |            | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - DPCH compressed mode info                                                               |            | Not Present                                     |         |
| - TX Diversity mode                                                                       |            | None                                            |         |
| - SSDT information                                                                        |            | Not Present                                     |         |
| - Default DPCH Offset Value                                                               |            | Arbitrary set to value 0306688 by step          |         |
|                                                                                           |            | of 512                                          |         |
| - MAC-hs reset indicator                                                                  | A4 A0 A0   | Not Present                                     | REL-5   |
| Downlink information for each radio link list - Downlink information for each radio links | A1, A2, A3 |                                                 |         |
| - CHOICE mode                                                                             |            | FDD                                             |         |
| - Primary CPICH info                                                                      |            |                                                 |         |
| - Primary scrambling code                                                                 |            | Ref. to the Default setting in TS34.108         |         |
|                                                                                           |            | clause 6.1 (FDD)                                |         |
| - PDSCH with SHO DCH info                                                                 |            | Not Present                                     |         |
| - PDSCH code mapping                                                                      |            | Not Present                                     | 55      |
| - Serving HS-DSCH radio link indicator                                                    |            | FALSE                                           | REL-5   |
| Downlink DPCH info for each RL     Primary CPICH usage for channel                        |            | Primary CPICH may be used                       |         |
| estimation                                                                                |            | i imary of fortillay be used                    |         |
| - DPCH frame offset                                                                       |            | Set to value Default DPCH Offset Value          |         |
|                                                                                           |            | ( as currently stored in SS) mod 38400          |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                   |            | Ò                                               |         |
| - Secondary CPICH info                                                                    |            | Not Present                                     |         |
| - DL channelisation code                                                                  |            | _                                               |         |
| - Secondary scrambling code                                                               |            | 4<br>  Reference to TS34.108 clause 6.10        |         |
| - Spreading factor                                                                        |            | Parameter Set                                   |         |
| - Code number                                                                             |            | 0                                               |         |
| - Scrambling code change                                                                  |            | No change                                       |         |
| - TPC combination index                                                                   |            | 0                                               |         |
| - SSDT Cell Identity                                                                      |            | Not Present                                     |         |
| - Closed loop timing adjustment mode                                                      |            | Not Present                                     |         |
| - SCCPCH information for FACH                                                             | A4         | Not Present                                     |         |
| Downlink information for each radio link list - Downlink information for each radio links | A4         |                                                 |         |
| - CHOICE mode                                                                             |            | FDD                                             |         |
| - Primary CPICH info                                                                      |            |                                                 |         |
| - Primary scrambling code                                                                 |            | Ref. to the Default setting in TS34.108         |         |
|                                                                                           |            | clause 6.1 (FDD)                                |         |
| - PDSCH with SHO DCH info                                                                 |            | Not Present                                     |         |
| - PDSCH code mapping                                                                      |            | Not Present                                     | ם בו    |
| Serving HS-DSCH radio link indicator     Downlink DPCH info for each RL                   |            | FALSE                                           | REL-5   |
| - Primary CPICH usage for channel                                                         |            | Primary CPICH may be used                       |         |
| estimation                                                                                |            | ary or rorrinay bo about                        |         |
| - DPCH frame offset                                                                       |            | Set to value: Default DPCH Offset               |         |
|                                                                                           |            | Value mod 38400                                 |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                                   |            | 0                                               |         |
| - Secondary CPICH info                                                                    |            | Not Present                                     |         |
| - DL channelisation code                                                                  |            |                                                 |         |
| - Secondary scrambling code - Spreading factor                                            |            | 4<br>  Reference to TS34.108 clause 6.10        |         |
| Oproduing factor                                                                          |            | Parameter Set                                   |         |
| - Code number                                                                             |            | 0                                               |         |
| - Scrambling code change                                                                  |            | No change                                       |         |
| - TPC combination index                                                                   |            | 0                                               |         |
| - SSDT Cell Identity                                                                      |            | Not Present                                     |         |
| - Closed loop timing adjustment mode                                                      |            | Not Present                                     |         |
| - SCCPCH information for FACH                                                             | ٨٥         | Not Present                                     |         |
| Downlink information for each radio link     Choice mode                                  | A5         | FDD                                             |         |
| - Onoice mode                                                                             | l          | טט ו                                            | l       |

| Information Element                                      | Condition | Value/remark                            | Version |
|----------------------------------------------------------|-----------|-----------------------------------------|---------|
| - Primary CPICH info                                     |           |                                         |         |
| - Primary scrambling code                                |           | Ref. to the Default setting in TS34.108 |         |
|                                                          |           | clause 6.1 (FDD)                        |         |
| - PDSCH with SHO DCH info                                |           | Not Present                             |         |
| - PDSCH code mapping                                     |           | Not Present                             |         |
| <ul> <li>Serving HS-DSCH radio link indicator</li> </ul> |           | FALSE                                   | REL-5   |
| - Downlink DPCH info for each RL                         |           | Not present                             |         |
| - SCCPCH information for FACH                            |           | Not Present                             |         |
| - Downlink information for each radio link               | A6        | Not Present                             |         |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

### Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message                                                                                    |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronisation info                | Not present                                                                                                                                                                                          |

### Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identitifer   | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.                                                                             |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

# Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL\_DCH)

| Information Element                                      | Value/remark                                                                                                                                                       |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                             |                                                                                                                                                                    |
| RRC transaction identifier                               | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info                                     |                                                                                                                                                                    |
| - Message authentication code                            | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                            | SS provides the value of this IE, from its internal counter.                                                                                                       |
| CHOICE mode                                              | FDD                                                                                                                                                                |
| DPCH/PUSCH TFCS in Uplink                                |                                                                                                                                                                    |
| - CHOICE Subset representation                           | Allowed transport format combination list                                                                                                                          |
| <ul> <li>Allowed Transport format combination</li> </ul> | 0 (The TFC is constructed from ALL TF0)                                                                                                                            |
| Activation time for TFC subset                           | Not Present                                                                                                                                                        |
| TFC Control duration                                     | Not Present                                                                                                                                                        |

### Contents of UE CAPABILITY ENQUIRY message: AM or UM

| Information Element                                             | Value/remark                                                                                                                                                                                                                     |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                    |                                                                                                                                                                                                                                  |
| RRC transaction identifier                                      | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                                   |
| Integrity check info                                            |                                                                                                                                                                                                                                  |
| - Message authentication code     - RRC Message sequence number | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.  SS provides the value of this IE, from its internal counter. |
| Capability update requirement                                   | 33 provides the value of this IL, from its internal counter.                                                                                                                                                                     |
| - UE radio access FDD capability update requirement             | TRUE                                                                                                                                                                                                                             |
| - UE radio access TDD capability update requirement             | FALSE                                                                                                                                                                                                                            |
| - System specific capability update requirement list            | Not Present                                                                                                                                                                                                                      |

### Contents of UE CAPABILITY INFORMATION message: AM

| Information Element                                                | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                                         | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.                                                                                               |
| Integrity check info                                               |                                                                                                                                                                                                      |
| - Message authentication code                                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| UE radio access capability                                         | Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings                                                                                     |
| Access stratum release indicator     PDCP Capability               |                                                                                                                                                                                                      |
| - RLC Capability                                                   |                                                                                                                                                                                                      |
| - Transport channel capability                                     |                                                                                                                                                                                                      |
| - RF Capability FDD                                                |                                                                                                                                                                                                      |
| - RF Capability TDD                                                |                                                                                                                                                                                                      |
| - Physical channel capability - UE multi-mode/multi-RAT capability |                                                                                                                                                                                                      |
| - Security Capability                                              |                                                                                                                                                                                                      |
| - UE positioning Capability                                        |                                                                                                                                                                                                      |
| - Measurement capability                                           |                                                                                                                                                                                                      |
| UE radio access capability extension                               | Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings                                                                                     |
| UE system specific capability                                      | Not Checked                                                                                                                                                                                          |

# Contents of UE CAPABILITY INFORMATION CONFIRM message: UM

| Information Element           | Value/remark                                                                                                                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                    |
| RRC transaction identifier    | Set to the same value as received in the UE CAPABILITY INFORMATON message.                                                                                         |
| Integrity check info          |                                                                                                                                                                    |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message seguence number | SS provides the value of this IE, from its internal counter.                                                                                                       |

### Contents of URA UPDATE message: TM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| U-RNTI                        |                                                                                                                                                                                                      |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                                                      |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                                                            |
| RRC transaction identifier    | Checked to see if it is absent                                                                                                                                                                       |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| URA update cause              | See the test content                                                                                                                                                                                 |
| Protocol error indicator      | Checked to see if it is absent or set to 'FALSE'                                                                                                                                                     |
| Protocol error information    | Checked to see if it is absent                                                                                                                                                                       |

# Contents of URA UPDATE CONFIRM message: UM

| Information Element                   | Value/remark                                                 |
|---------------------------------------|--------------------------------------------------------------|
| Message Type                          |                                                              |
| U-RNTI                                | If this message is sent on CCCH, use the following           |
|                                       | values. Else, this IE is absent.                             |
| - SRNC identity                       | 0000 0000 0001B                                              |
| - S-RNTI                              | 0000 0000 0000 0000 0001B                                    |
| RRC transaction identifier            | Arbitrarily selects and integer between 0 and 3              |
| Integrity check info                  | ,                                                            |
| - message authentication code         | SS calculates the value of MAC-I for this message and        |
|                                       | writes to this IE. The first/ leftmost bit of the bit string |
|                                       | contains the most significant bit of the MAC-I.              |
| - RRC message sequence number         | SS provides the value of this IE, from its internal counter. |
| Integrity protection mode info        | Not Present                                                  |
| Ciphering mode info                   | Not Present                                                  |
| New U-RNTI                            | Not Present                                                  |
| New C-RNTI                            | Not Present                                                  |
| RRC state indicator                   | URA_PCH                                                      |
| UTRAN DRX cycle length coefficient    | 3                                                            |
| CN information info                   | Not Present                                                  |
| URA identity                          | Not Present                                                  |
| Downlink counter synchronisation info | Not Present                                                  |

### Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| CN domain identity            | Checked to see if set to a CN domain for which a signalling connection exists                                                                                                                        |
| NAS message                   | Set according to that indicated in specific message content clause                                                                                                                                   |
| Measured results on RACH      | Not checked                                                                                                                                                                                          |

#### Contents of UTRAN MOBILITY INFORMATION message: AM or UM

| Information Element                       | Value/remark                                                                                                                                                       |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                              |                                                                                                                                                                    |
| Integrity check info                      |                                                                                                                                                                    |
| - message authentication code             | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number             | SS provides the value of this IE, from its internal counter.                                                                                                       |
| RRC transaction identifier                | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity protection mode info            | Not Present                                                                                                                                                        |
| Ciphering mode info                       | Not Present                                                                                                                                                        |
| New U-RNTI                                | See the test content                                                                                                                                               |
| New C-RNTI                                | See the test content                                                                                                                                               |
| UE Timers and constants in connected mode |                                                                                                                                                                    |
| - T301                                    | 2000 milliseconds                                                                                                                                                  |
| - N301                                    | 2                                                                                                                                                                  |
| - T302                                    | 4000 milliseconds                                                                                                                                                  |
| - N302                                    | 3                                                                                                                                                                  |
| - T304                                    | 1000 milliseconds                                                                                                                                                  |
| - N304                                    | 3                                                                                                                                                                  |
| - T305                                    | 60 minutes                                                                                                                                                         |
| - T307                                    | 50 seconds                                                                                                                                                         |
| - T308                                    | 320 milliseconds                                                                                                                                                   |
| - T309                                    | 8 seconds                                                                                                                                                          |
| - T310                                    | 320 milliseconds                                                                                                                                                   |
| - N310                                    | 5                                                                                                                                                                  |
| - T311                                    | 500 milliseconds                                                                                                                                                   |
| - T312                                    | 5 seconds                                                                                                                                                          |
| - N312                                    | 200                                                                                                                                                                |
| - T313                                    | 10 seconds                                                                                                                                                         |
| - N313                                    | 200                                                                                                                                                                |
| - T314                                    | 20 seconds                                                                                                                                                         |
| - T315                                    | 30 seconds                                                                                                                                                         |
| - N315<br>- T316                          | 200<br>50 seconds                                                                                                                                                  |
|                                           | 50 seconds                                                                                                                                                         |
| - T317<br>CN information info             | 1800 seconds<br>Not Present                                                                                                                                        |
|                                           |                                                                                                                                                                    |
| URA identity                              | Not present                                                                                                                                                        |
| Downlink counter synchronisation info     | Not Present                                                                                                                                                        |

#### Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message                                                                                                 |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronisation info                | Not present                                                                                                                                                                                          |

# 9.1.2 Default Message Contents for Signalling (TDD)

Contents of RRC STATUS message: AM

| Information Element | Value/remark |
|---------------------|--------------|
|                     |              |

| Information Element                | Value/remark                                                                                                                                                                                         |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                       |                                                                                                                                                                                                      |
| Integrity check info               |                                                                                                                                                                                                      |
| - Message authentication code      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Identification of received message | Not checked                                                                                                                                                                                          |
| Protocol error information         |                                                                                                                                                                                                      |
| - Protocol error cause             | Refer to test requirement.                                                                                                                                                                           |

### Contents of SECURITY MODE FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| UE information elements       |                                                                                                                                                                                                      |
| RRC transaction identifier    | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.                                                           |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Refer to test requirement.                                                                                                                                                                           |

### Contents of URA UPDATE message: TM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| U-RNTI                        | Checked to see if it is set to the following values                                                                                                                                                  |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                                                      |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                                                            |
| RRC transaction identifier    | Checked to see if it is absent                                                                                                                                                                       |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| URA update cause              | See the test content                                                                                                                                                                                 |
| Protocol error indicator      | Checked to see if it is absent or set to 'FALSE'                                                                                                                                                     |
| Protocol error information    | Checked to see if it is absent                                                                                                                                                                       |

# Contents of URA UPDATE CONFIRM message: UM

| Information Element                        | Value/remark                                                      |
|--------------------------------------------|-------------------------------------------------------------------|
| Message Type                               |                                                                   |
| U-RNTI                                     | If this message is sent on CCCH, use the following values.        |
|                                            | Else, this IE is absent.                                          |
| - SRNC identity                            | 0000 0000 0001B                                                   |
| - S-RNTI                                   | 0000 0000 0000 0000 0001B                                         |
| RRC transaction identifier                 | Arbitrarily selects and integer between 0 and 3                   |
| Integrity check info                       |                                                                   |
| <ul> <li>Message authentication</li> </ul> | Set to MAC-I value computed by the SS. The first/ leftmost bit    |
| code                                       | of the bit string contains the most significant bit of the MAC-I. |

| Information Element            | Value/remark                                            |
|--------------------------------|---------------------------------------------------------|
| - RRC Message Sequence         | Set to an arbitrarily selected integer between 0 and 15 |
| Number                         |                                                         |
| Integrity protection mode info | Not present                                             |
| Ciphering mode info            | Not present                                             |
| New U-RNTI                     | Not present                                             |
| New C-RNTI                     | Not present                                             |
| RRC State Indicator            | URA_PCH                                                 |
| UTRAN DRX cycle length         | 3                                                       |
| coefficient                    |                                                         |
| CN Information info            | Not present                                             |
| URA identity                   | See the test content                                    |
| Downlink counter               | Not present                                             |
| synchronisation info           |                                                         |

### Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| CN domain identity            | Checked to see if set to a CN domain for which a signalling connection exists                                                                                                                        |
| NAS message                   | Set according to that indicated in specific message content for each test case                                                                                                                       |
| Measured results on RACH      | Not checked                                                                                                                                                                                          |

### Contents of UTRAN MOBILITY INFORMATION message: AM or UM

| Information Element                        | Value/remark                                                      |
|--------------------------------------------|-------------------------------------------------------------------|
| Message Type                               |                                                                   |
| Integrity check info                       |                                                                   |
| <ul> <li>Message authentication</li> </ul> | Set to MAC-I value computed by the SS. The first/ leftmost bit    |
| code                                       | of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence                     | Set to an arbitrarily selected integer between 0 and 15           |
| Number                                     |                                                                   |
| RRC transaction identifier                 | Arbitrarily selects and integer between 0 and 3                   |
| Integrity protection mode info             | Not present                                                       |
| Ciphering mode info                        | Not present                                                       |
| New U-RNTI                                 | See the test content                                              |
| New C-RNTI                                 | See the test content                                              |
| UE Timers and constants in                 |                                                                   |
| connected mode                             |                                                                   |

| Information Element  | Value/remark      |
|----------------------|-------------------|
| - T301               | 2000 milliseconds |
| - N301               | 2                 |
| - T302               | 4000 milliseconds |
| - N302               | 3                 |
| - T304               | 1000 milliseconds |
| - N304               | 3                 |
| - T305               | 60 minutes        |
| - T307               | 50 seconds        |
| - T308               | 320 milliseconds  |
| - T309               | 8 seconds         |
| - T310               | 320 milliseconds  |
| - N310               | 5                 |
| - T311               | 500 milliseconds  |
| - T312               | 5 seconds         |
| - N312               | 200               |
| - T313               | 10 seconds        |
| - N313               | 200               |
| - T314               | 20 seconds        |
| - T315               | 30 seconds        |
| - N315               | 200               |
| - T316               | 50 seconds        |
| - T317               | 1800 seconds      |
| CN Information info  | Not present       |
| URA identity         | Not present       |
| Downlink counter     | Not present       |
| synchronisation info |                   |

### Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

| Information Element            | Value/remark                                                        |
|--------------------------------|---------------------------------------------------------------------|
| Message Type                   |                                                                     |
| RRC transaction identifier     | Checked to see if it matches the value of the same IE in            |
|                                | downlink UTRAN MOBILITY INFORMATION message                         |
| Integrity check info           |                                                                     |
| - Message authentication       | This IE is checked to see if it is present. The value is            |
| code                           | compared against the XMAC-I value computed by SS. The               |
|                                | first/ leftmost bit of the bit string contains the most significant |
|                                | bit of the MAC-I.                                                   |
| - RRC Message sequence         | This IE is checked to see if it is present. The value is used by    |
| number                         | SS to compute the XMAC-I value.                                     |
| Uplink integrity protection    | Not checked                                                         |
| activation info                |                                                                     |
| COUNT-C activation time        | Not checked                                                         |
| Radio bearer uplink ciphering  | Not checked                                                         |
| activation time info           |                                                                     |
| Uplink counter synchronisation | Not checked                                                         |
| info                           |                                                                     |

### Contents of UE CAPABILITY ENQUIRY message

| Information Element                                 | Value/remark                                                                                                                                                                   |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                        | UE CAPABILITY ENQUIRY                                                                                                                                                          |
| Integrity check info                                | Not Present                                                                                                                                                                    |
| - Message authentication code                       | If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                       | If present, SS provides the value of this IE, from its internal counter.                                                                                                       |
| RRC transaction identifier                          | Arbitrarily selects an integer between 0 and 3                                                                                                                                 |
| Capability update requirement                       |                                                                                                                                                                                |
| - UE radio access FDD capability update requirement | FALSE                                                                                                                                                                          |

| Information Element                                                       | Value/remark |
|---------------------------------------------------------------------------|--------------|
| - UE radio access 3.84 Mcps TDD capability update                         | FALSE        |
| requirement - UE radio access 1.28 Mcps TDD capability update requirement | TRUE         |
| - System specific capability update requirement list                      | Not Present  |

# Contents of UE CAPABILITY INFORMATION message (1.28 Mpcs TDD)

| Information Element                                 | Value/remark                                                     |
|-----------------------------------------------------|------------------------------------------------------------------|
|                                                     | UE CAPABILITY INFORMATION                                        |
| Message Type                                        | Not Present                                                      |
| Integrity check info                                |                                                                  |
| - Message authentication code                       | If present, SS calculates the value of MAC-I for this message    |
|                                                     | and writes to this IE. The first/ leftmost bit of the bit string |
| DDO Marana and an analysis                          | contains the most significant bit of the MAC-I.                  |
| - RRC Message sequence number                       | If present, SS provides the value of this IE, from its internal  |
|                                                     | counter.                                                         |
| RRC transaction identifier                          | Checked to see if the value is identical to the same IE in the   |
|                                                     | downlink UE CAPABILITY ENQUIRY message.                          |
| UE radio access capability                          | Present                                                          |
| - Access stratum release indicator                  | REL-5                                                            |
| - DL capability with simultaneous HS-DSCH           | Not Present                                                      |
| configuration                                       |                                                                  |
| - PDCP capability                                   |                                                                  |
| - Support for lossless SRNS relocation              | TRUE                                                             |
| - Support for RFC2507                               | TRUE                                                             |
| - Max HC context space                              | 512                                                              |
| - Support for RFC3095                               | FALSE                                                            |
| - RLC capability                                    |                                                                  |
| - Total RLC AM buffer size                          | 150                                                              |
| - Maximum RLC AM Window Size                        | 2047                                                             |
| - Maximum number of AM entities                     | 30                                                               |
| - Transport channel capability                      |                                                                  |
| - Downlink transport channel capability information |                                                                  |
| elements                                            |                                                                  |
| - Max number of bits received                       | 640                                                              |
| - Max convolutionally coded bits received           | 6400                                                             |
| - Max turbo coded bits received                     | 6400                                                             |
| - Max number of simultaneous transport channels     | 8                                                                |
| - Maximum number of simultaneous CCtrCH             | 1                                                                |
| - Max number of received transport blocks           | 32                                                               |
| - Max number of TFC                                 | 128                                                              |
| - Max number of TF                                  | 64                                                               |
| - Turbo decoding supported                          | TRUE                                                             |
| - Uplink transport channel capability information   | 1102                                                             |
| elements                                            |                                                                  |
| - Max number of bits transmitted                    | 6400                                                             |
| Max convolutionally coded bits transmitted          | 6400                                                             |
| - Max turbo coded bits transmitted                  | 6400                                                             |
| - Max number of simultaneous transport channels     | 8                                                                |
| - Max number of simultaneous CCTrCH of DCH          | 1                                                                |
| - Max number of transmitted transport blocks        | 16                                                               |
| - max number of TFC                                 | 64                                                               |
| - Max number of TF                                  | 32                                                               |
| - Turbo coding supported                            | TRUE                                                             |
| - RF capability FDD                                 | Not Present                                                      |
| - RF capability FDD - RF capability TDD             | Present                                                          |
| - KF capability TDD - UE power class                | 1                                                                |
| - Radio frequency bands                             |                                                                  |
|                                                     | a<br>1 28 Mons                                                   |
| - Chip rate capability                              | 1.28 Mcps                                                        |
| - Physical channel capability                       |                                                                  |
| -Downlink physical channel capability information   | Not Present                                                      |
| - FDD physical channel capability                   | Not Present                                                      |
| - 3.84 Mcps TDD downlink physical channel           | Not Present                                                      |
| capability                                          | Dranaut                                                          |
| - 1.28 Mcps TDD downlink physical channel           | Present                                                          |
| capability                                          |                                                                  |

| Information Element                                    | Value/remark |
|--------------------------------------------------------|--------------|
| - maxTS per subFrame                                   | 6            |
| - max physical channel per frame                       | 96           |
| - min. SF                                              | 16           |
| - Support of PDSCH                                     | FALSE        |
| - Support of HS-PDSCH                                  | Unsupported  |
| - max. physical channel per TS                         | 16           |
| - Support of 8psk                                      | FALSE        |
| -Uplink physical channel capability information        |              |
| - FDD physical channel capability                      | Not Present  |
| - 3.84 Mcps TDD uplink physical channel capability     | Not Present  |
| - 1.28 Mcps TDD uplink physical channel capability     | Present      |
| - maxTS per subFrame                                   | 6            |
| <ul> <li>max physical channel per timeslot</li> </ul>  | 2            |
| - min. SF                                              | 16           |
| - Support of PDSCH                                     | FALSE        |
| - max. physical channel per TS                         | 16           |
| - Support of 8psk                                      | FALSE        |
| <ul> <li>UE multi-mode/multi-RAT capability</li> </ul> |              |
| - MultiRAT capability List                             |              |
| - Support of GSM                                       | FALSE        |
| - Support of Multicarrier                              | TRUE         |
| - MultiMode capability                                 | TDD          |
| - Support of UTRAN to GERAN NACC                       | FALSE        |
| - Security capability                                  |              |
| - Ciphering algorithm capability                       |              |
| - UEA0                                                 | FALSE        |
| - UEA1                                                 | FALSE        |
| - Spare                                                | FALSE        |
| - Integrity protection algorithm                       |              |
| - UIA1                                                 | FALSE        |
| - Spare                                                | FALSE        |
| - UE positioning capability                            |              |
| - Standalone location method(s) supported              | FALSE        |
| - UE based OTDOA supported                             | FASLE        |
| - Network Assisted GPS support                         | None         |
| - Support for GPS timing of cell frames                | FALSE        |
| measurement                                            | FALOE        |
| - Support for IPDL                                     | FALSE        |
| - Support for RX-TX time difference type2              | FALSE        |
| measurement                                            | FALCE        |
| - Support for Up measurement validaity in CELL-        | FALSE        |
| PCH and URA-PCH states                                 | Not Dragant  |
| - Measurement capability                               | Not Present  |
| UE system specific capability                          | Not present  |

### Contents of UE CAPABILITY INFORMATION CONFIRM message

| Information Element           | Value/remark                                                                                                                                                                   |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | UE CAPABILITY INFORMATION                                                                                                                                                      |
| Integrity check info          | Not Present                                                                                                                                                                    |
| - Message authentication code | If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | If present, SS provides the value of this IE, from its internal counter.                                                                                                       |
| RRC transaction identifier    | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.                                                                         |

# Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element           | Condition   | Value/remark                                   | Versio |
|-------------------------------|-------------|------------------------------------------------|--------|
| Message Type                  | A1, A2, A3, |                                                |        |
|                               | A4, A5, A6  |                                                |        |
| RRC transaction identifier    |             | Arbitrarily selects an integer between 0 and 3 |        |
| Integrity check info          |             |                                                |        |
| - message authentication code |             | SS calculates the value of MAC-I for this      |        |

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| Information Element                                  | Condition   | Value/remark                                     | Versio |
|------------------------------------------------------|-------------|--------------------------------------------------|--------|
|                                                      |             | message and writes to this IE. The first/        |        |
|                                                      |             | leftmost bit of the bit string contains the most |        |
|                                                      |             | significant bit of the MAC-I.                    |        |
| - RRC message sequence number                        |             | SS provides the value of this IE, from its       |        |
|                                                      |             | internal counter.                                |        |
| Integrity protection mode info                       |             | Not Present                                      |        |
| Ciphering mode info                                  |             | Not Present                                      |        |
| Activation time                                      | A1, A2, A3  | (256+CFN-(CFN MOD 8 + 8))MOD 256                 |        |
| Activation time                                      | A4, A5, A6  | Now                                              |        |
| New U-RNTI                                           |             | Not Present                                      |        |
| New C-RNTI                                           | A1, A2, A3, | Not Present                                      |        |
|                                                      | A4          |                                                  |        |
| New C-RNTI                                           | A5, A6      | '1010 1010 1010 1010'                            |        |
| New DSCH-RNTI                                        | A1, A2, A3, | Not Present                                      |        |
|                                                      | A4, A5, A6  |                                                  |        |
| New H-RNTI                                           | A1, A2, A3, | Not Present                                      | REL-5  |
|                                                      | A4, A5, A6  |                                                  |        |
| RRC State indicator                                  | A1, A2, A3, | CELL_DCH                                         |        |
| Titto State Indicator                                | A4          | OLLE_BOIT                                        |        |
| RRC State indicator                                  | A5, A6      | CELL FACH                                        |        |
| UTRAN DRX cycle length coefficient                   |             | Not Present                                      |        |
| OTRAN DRA Cycle length coefficient                   | A1, A2, A3, | Not Present                                      |        |
| CNI information info                                 | A4,A5,A6    | Not Droppet                                      |        |
| CN information info                                  |             | Not Present                                      |        |
| URA identity                                         |             | Not Present                                      |        |
| Downlink counter synchronisation info                | A 4 A 0 A 5 | Not Present                                      |        |
| UL Transport channel information for all transport   | A1, A2, A5, | Not Present                                      |        |
| channels                                             | A6          |                                                  |        |
| UL Transport channel information for all transport   | A3, A4      |                                                  |        |
| channels                                             |             |                                                  |        |
| - PRACH TFCS                                         |             | Not Present                                      |        |
| - CHOICE mode                                        |             | TDD                                              |        |
| <ul> <li>Individual UL CCTrCH information</li> </ul> |             |                                                  |        |
| - UL TFCS Identity                                   |             |                                                  |        |
| - TFCS ID                                            |             | 1                                                |        |
| - Shared Channel Indicator                           |             | FALSE                                            |        |
| - UL TFCS                                            |             |                                                  |        |
| - CHOICE <i>TFCI</i> signalling                      |             | Normal                                           |        |
| - TFCI Field 1 Information                           |             |                                                  |        |
| <ul> <li>CHOICE TFCS representation</li> </ul>       |             | Complete reconfiguration                         |        |
| - TFCS complete reconfiguration information          |             |                                                  |        |
| - CHOICE CTFC Size                                   |             | Number of bits used must be enough to cover      |        |
|                                                      |             | all combinations of CTFC from TS34.108           |        |
|                                                      |             | clause 6.11.5.4 Parameter Set.                   |        |
| - CTFC information                                   |             | This IE is repeated for TFC numbers and          |        |
| o oa.a                                               |             | reference to TS34.108 clause 6.11.5.4            |        |
|                                                      |             | Parameter Set                                    |        |
| - CTFC                                               |             | Reference to TS34.108 clause 6.11.5.4            |        |
| - 011 0                                              |             | Parameter Set                                    |        |
| - Power offset information                           |             | i arameter set                                   |        |
| - CHOICE Gain Factors                                |             | Computed Gain Factors/The last TEC is set to     |        |
| - UNDICE GAIN FACIOIS                                |             | Computed Gain Factors(The last TFC is set to     |        |
| Poforonas TEC ID                                     |             | Signalled Gain Factors)                          |        |
| - Reference TFC ID                                   |             | 0 Integer(03)                                    |        |
| - CHOICE Gain Factors                                |             | Signalled Gain Factors (Not Present if the       |        |
|                                                      |             | CHOICE Gain Factors is set to ComputedGain       |        |
| OLIOIOE .                                            |             | Factors)                                         |        |
| - CHOICE mode                                        |             | TDD                                              |        |
| - Gain Factor $\beta_d$                              |             | 15                                               |        |
| - Reference TFC ID                                   |             | 0 Integer(0 3)                                   |        |
| - CHOICE mode                                        |             | TDD                                              |        |
| - TFC subset                                         |             |                                                  |        |
| - CHOICE Subset representation                       |             | Full transport format combination set            |        |
| - TFC subset list                                    |             | Not Present                                      |        |
| 11 0 300301 1131                                     |             |                                                  |        |
| Added or Reconfigured TrCH information list          | A1, A2, A5, | Not Present                                      |        |

| Information Element                               | Condition  | Value/remark                                      | Versio |
|---------------------------------------------------|------------|---------------------------------------------------|--------|
| Added or Reconfigured TrCH information list       | A4         | 2 TrCHs(DCH for DCCH and DCH for DTCH)            |        |
| - Added or Reconfigured UL TrCH information       |            |                                                   |        |
| - Uplink transport channel type                   |            | DCH                                               |        |
| - UL Transport channel identity                   |            | 5                                                 |        |
| - TFS                                             |            |                                                   |        |
| - CHOICE Transport channel type                   |            | Dedicated transport channels                      |        |
| - Dynamic Transport format information            |            | D ( T004.400                                      |        |
| - RLC Size                                        |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| - Number of TBs and TTI List                      |            | Set This IE is reposted for mayTE number          |        |
| - Transmission Time Interval                      |            | This IE is repeated for maxTF number  Not Present |        |
| - Number of Transport blocks                      |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| - Number of Transport blocks                      |            | Set                                               |        |
| - CHOICE Logical Channel list                     |            | All                                               |        |
| - Semi-static Transport Format information        |            | 7 ***                                             |        |
| - Transmission time interval                      |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - Type of channel coding                          |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| 31                                                |            | Set                                               |        |
| - Coding Rate                                     |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - Rate matching attribute                         |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - CRC size                                        |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - Uplink transport channel type                   |            | DCH                                               |        |
| - UL Transport channel identity                   |            | 1                                                 |        |
| - TFS                                             |            |                                                   |        |
| - CHOICE Transport channel type                   |            | Dedicated transport channels                      |        |
| Dynamic Transport format information     RLC Size |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| - RLC Size                                        |            | Set                                               |        |
| - Number of TBs and TTI List                      |            | This IE is repeated for maxTF number              |        |
| - Transmission Time Interval                      |            | Not Present                                       |        |
| - Number of Transport blocks                      |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| Transport Stocks                                  |            | Set                                               |        |
| - CHOICE Logical Channel list                     |            | All                                               |        |
| - Semi-static Transport Format information        |            |                                                   |        |
| - Transmission time interval                      |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - Type of channel coding                          |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - Coding Rate                                     |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| <b>5</b>                                          |            | Set                                               |        |
| - Rate matching attribute                         |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| CDC size                                          |            | Set                                               |        |
| - CRC size                                        |            | Reference to TS34.108 clause 6.11 Parameter Set   |        |
| Added or Reconfigured TrCH information list       | A3         | (DCH for DTCH)                                    |        |
| - Added or Reconfigured UL TrCH information       | Α3         | (DCITIOI DTCIT)                                   |        |
| - Uplink transport channel type                   |            | DCH                                               |        |
| - UL Transport channel identity                   |            | 1                                                 |        |
| - TFS                                             |            |                                                   |        |
| - CHOICE Transport channel type                   |            | Dedicated transport channels                      |        |
| - Dynamic Transport format information            |            | ·                                                 |        |
| - RLC Size                                        |            | Reference to TS34.108 clause 6.11 Parameter       |        |
|                                                   |            | Set                                               |        |
| - Number of TBs and TTI List                      | 1 to maxTF | (This IE is repeated for TF number.)              |        |
| - Transmission Time Interval                      |            | Not Present                                       |        |
| - Number of Transport blocks                      |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| CHOICE Lagical Observable (                       |            | Set                                               |        |
| - CHOICE Logical Channel list                     |            | All                                               |        |
| - Semi-static Transport Format information        |            | Peteropee to TC24 400 elevine C 44 December       |        |
| - Transmission time interval                      |            | Reference to TS34.108 clause 6.11 Parameter Set   |        |
| - Type of channel coding                          |            | Reference to TS34.108 clause 6.11 Parameter       |        |
| - Type of Granner County                          |            | Set                                               |        |
|                                                   | 1          | 001                                               |        |

| Information Element                                                                     | Condition   | Value/remark                                                                     | Versio |
|-----------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|--------|
| - Coding Rate                                                                           |             | Reference to TS34.108 clause 6.11 Parameter                                      |        |
|                                                                                         |             | Set                                                                              |        |
| <ul> <li>Rate matching attribute</li> </ul>                                             |             | Reference to TS34.108 clause 6.11 Parameter                                      |        |
|                                                                                         |             | Set                                                                              |        |
| - CRC size                                                                              |             | Reference to TS34.108 clause 6.11 Parameter                                      |        |
|                                                                                         |             | Set                                                                              |        |
| CHOICE mode                                                                             | A1,A2,A3,   | TDD                                                                              |        |
|                                                                                         | A4,A5,A6    |                                                                                  |        |
| Downlink HS-PDSCH Information                                                           |             |                                                                                  | REL-5  |
| DL Transport channel information common for all                                         | A1, A2,     | Not Present                                                                      |        |
| transport channels                                                                      | A5,A6       |                                                                                  |        |
| DL Transport channel information common for all                                         | A3,A4       |                                                                                  |        |
| transport channel                                                                       |             |                                                                                  |        |
| - SCCPCH TFCS                                                                           |             | Not Present                                                                      |        |
| - CHOICE mode                                                                           |             | TDD                                                                              |        |
| - Individual DL CCTrCH information                                                      |             |                                                                                  |        |
| - DL TFCS Identity                                                                      |             |                                                                                  |        |
| - TFCS ID                                                                               |             | 2                                                                                |        |
| - Shared Channel Indicator                                                              |             | FALSE                                                                            |        |
| - CHOICE DL parameters                                                                  |             | Independent                                                                      |        |
| - DL TFCS                                                                               |             | NI                                                                               |        |
| - CHOICE TFCI Signalling                                                                |             | Normal                                                                           |        |
| - TFCI Field 1 Information                                                              |             | Commission and a substitution                                                    |        |
| - CHOICE TFCS representation                                                            |             | Complete reconfiguration                                                         |        |
| <ul> <li>TFCS complete reconfiguration information</li> <li>CHOICE CTEC Size</li> </ul> |             | Nivershau of hits wood movet has an available according                          |        |
| - CHOICE CIPC Size                                                                      |             | Number of bits used must be enough to cover all combinations of CTFC from clause |        |
|                                                                                         |             | TS34.108 clause 6.11.5.4 Parameter Set.                                          |        |
| - CTFC information                                                                      |             | This IE is repeated for TFC numbers and                                          |        |
| - CTFC IIIIOITIIaliOII                                                                  |             | reference to TS34.108 clause 6.11.5.4                                            |        |
| - CTFC                                                                                  |             | Reference to TS34.108 clause 6.11.5.4                                            |        |
| -0110                                                                                   |             | Parameter Set                                                                    |        |
| - Power offset information                                                              |             | Not Present                                                                      |        |
| Added or Reconfigured TrCH information list                                             | A1, A2, A5, | Not Present                                                                      | }      |
| Adda of Neodringaroa Front information list                                             | A1, A2, A3, | 110011                                                                           |        |

| Information Element                                                | Condition   | Value/remark                                | Versio |
|--------------------------------------------------------------------|-------------|---------------------------------------------|--------|
| Added or Reconfigured TrCH information list                        | A4          | 2 TrCHs(DCH for DCCH and DCH for DTCH)      |        |
| <ul> <li>Added or Reconfigured DL TrCH information</li> </ul>      |             |                                             |        |
| <ul> <li>Downlink transport channel type</li> </ul>                |             | DCH                                         |        |
| <ul> <li>DL Transport channel identity</li> </ul>                  |             | 10                                          |        |
| - CHOICE DL parameters                                             |             | Same as UL                                  |        |
| <ul> <li>Uplink transport channel type</li> </ul>                  |             | DCH                                         |        |
| - UL TrCH identity                                                 |             | 5                                           |        |
| - DCH quality target                                               |             |                                             |        |
| - BLER Quality value                                               |             | -2.0 Real(-6.30 by step of 0.1)             |        |
| <ul> <li>Transparent mode signalling info</li> </ul>               |             | Not Present                                 |        |
| <ul> <li>Downlink transport channel type</li> </ul>                |             | DCH                                         |        |
| - DL Transport channel identity                                    |             | 6                                           |        |
| - CHOICE DL parameters                                             |             | Explicit                                    |        |
| - TFS                                                              |             |                                             |        |
| <ul> <li>CHOICE Transport channel type</li> </ul>                  |             | Dedicated transport channels                |        |
| <ul> <li>Dynamic transport format information</li> </ul>           |             |                                             |        |
| - RLC Size                                                         |             | Reference to TS34.108 clause 6.11 Parameter |        |
|                                                                    |             | Set                                         |        |
| <ul> <li>Number of TBs and TTI List</li> </ul>                     |             | (This IE is repeated for TF number.)        |        |
| <ul> <li>Transmission Time Interval</li> </ul>                     |             | Not Present                                 |        |
| <ul> <li>Number of Transport blocks</li> </ul>                     |             | Reference to TS34.108 clause 6.11 Parameter |        |
|                                                                    |             | Set                                         |        |
| <ul> <li>Semi-static Transport Format information</li> </ul>       |             |                                             |        |
| <ul> <li>Transmission time interval</li> </ul>                     |             | Reference to TS34.108 clause 6.11 Parameter |        |
|                                                                    |             | Set                                         |        |
| <ul> <li>Type of channel coding</li> </ul>                         |             | Reference to TS34.108 clause 6.11 Parameter |        |
|                                                                    |             | Set                                         |        |
| - Coding Rate                                                      |             | Reference to TS34.108 clause 6.11 Parameter |        |
| <b>-</b>                                                           |             | Set                                         |        |
| - Rate matching attribute                                          |             | Reference to TS34.108 clause 6.11 Parameter |        |
| 000 :                                                              |             | Set                                         |        |
| - CRC size                                                         |             | Reference to TS34.108 clause 6.11 Parameter |        |
| DCU quality target                                                 |             | Set                                         |        |
| <ul> <li>DCH quality target</li> <li>BLER Quality value</li> </ul> |             | -2.0                                        |        |
| - Transparent mode signalling info                                 |             | Not Present                                 |        |
| Added or Reconfigured TrCH information list                        | A3          | Not i lesent                                |        |
| - Added or Reconfigured DL TrCH information                        | A3          |                                             |        |
| - Downlink transport channel type                                  |             | DCH                                         |        |
| - DL Transport channel identity                                    |             | 6                                           |        |
| - CHOICE DL parameters                                             |             | Explicit                                    |        |
| - TFS                                                              |             | LAPHOR                                      |        |
| - CHOICE Transport channel type                                    |             | Dedicated transport channels                |        |
| - Dynamic transport format information                             |             | Dedicated transport charmers                |        |
| - RLC Size                                                         |             | Reference to TS34.108 clause 6.11 Parameter |        |
| 1120 0120                                                          |             | Set                                         |        |
| - Number of TBs and TTI List                                       |             | (This IE is repeated for TF number.)        |        |
| - Transmission Time Interval                                       |             | Not Present                                 |        |
| - Number of Transport blocks                                       |             | Reference to TS34.108 clause 6.11 Parameter |        |
| ramon of transport blooks                                          |             | Set                                         |        |
| - Semi-static Transport Format information                         |             |                                             |        |
| - Transmission time interval                                       |             | Reference to TS34.108 clause 6.11 Parameter |        |
| Transmission and marka                                             |             | Set                                         |        |
| - Type of channel coding                                           |             | Reference to TS34.108 clause 6.11 Parameter |        |
| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                            |             | Set                                         |        |
| - Coding Rate                                                      |             | Reference to TS34.108 clause 6.11 Parameter |        |
| g                                                                  |             | Set                                         |        |
| - Rate matching attribute                                          |             | Reference to TS34.108 clause 6.11 Parameter |        |
| ŭ                                                                  |             | Set                                         |        |
| - CRC size                                                         |             | Reference to TS34.108 clause 6.11 Parameter |        |
|                                                                    |             | Set                                         |        |
| - DCH quality target                                               |             |                                             |        |
| - BLER Quality value                                               |             | -2.0                                        |        |
| - Transparent mode signalling info                                 |             | Not Present                                 |        |
| Frequency info                                                     | A1, A2, A3, |                                             |        |
|                                                                    | A4, A5      |                                             |        |
| - Choice mode                                                      |             | TDD                                         |        |

| Information Element                                                   | Condition         | Value/remark                                     | Versio  |
|-----------------------------------------------------------------------|-------------------|--------------------------------------------------|---------|
| - UARFCN (Nt)                                                         |                   | Reference to clause 5.1 Test frequencies         |         |
| Frequency info                                                        | A6                | Not Present                                      |         |
| Maximum allowed UL TX power                                           |                   | 33dBm                                            |         |
| CHOICE channel requirement                                            | A5, A6            | Not Present                                      |         |
| CHOICE channel requirement                                            | A1, A2, A3,<br>A4 | Uplink DPCH info                                 |         |
| - Uplink DPCH power control info                                      |                   |                                                  | D. T. 4 |
| - CHOICE mode                                                         |                   | TDD                                              | REL-4   |
| - CHOICE TDD option                                                   |                   | 1.28 Mcps TDD                                    | REL-4   |
| - PRXPDPCHdes                                                         |                   | -80 Integer(-12058 by step of 1)                 |         |
| - CHOICE UL OL PC info                                                |                   | Individually Signalled                           |         |
| - CHOICE TDD option                                                   |                   | 1.28 Mcps TDD                                    |         |
| <ul><li>- TPC step size</li><li>- Primary CCPCH Tx Power</li></ul>    |                   | 1 20 Internal (6, 42)                            |         |
| - CHOICE mode                                                         |                   | 20 Integer(643)                                  |         |
| - Uplink Timing Advance Control                                       |                   | 100                                              |         |
| - CHOICE Timing Advance     - CHOICE Timing Advance                   |                   | Enabled                                          |         |
| - CHOICE TIMING Advance - CHOICE TDD option                           |                   | 1.28 Mcps TDD                                    |         |
| - Uplink synchronisation parameters                                   |                   | 1.20 MCPS 1DD                                    |         |
| · · · · · · · · · · · · · · · · · · ·                                 |                   | 1                                                |         |
| Uplink synchronisation step size     Uplink synchronisation frequency |                   | 1                                                | +       |
| Synchronisation parameters                                            |                   | 1                                                |         |
| - SYNC_UL codes bitmap                                                |                   | 01010101                                         |         |
| - FPACH info                                                          |                   | 0.0.0.0.0                                        |         |
| - Timeslot number                                                     |                   | 0                                                |         |
| - Channelisation code                                                 |                   | 16/15                                            |         |
| - Midamble Shift and burst type                                       |                   | 10/13                                            |         |
| - CHOICE TDD option                                                   |                   | 1.28 Mcps TDD                                    |         |
| - Midamble Allocation Mode                                            |                   | Default midamble                                 |         |
| - Midamble configuration                                              |                   | 16 Integer(2, 4, 6, 8, 10, 12, 14, 16)           |         |
| - WT                                                                  |                   | 4 Integer(14)                                    |         |
| - PRXUpPCHdes                                                         |                   | -80 dBm                                          |         |
| - SYNC_UL procedure                                                   |                   | -00 dBiii                                        |         |
| - Max SYNC_UL Transmissions                                           |                   | 2                                                |         |
| - Power Ramp Step                                                     |                   | 2                                                |         |
| - UL CCTrCH List                                                      |                   | 2                                                |         |
| - TFCS ID                                                             |                   | 1                                                |         |
| - IFCS ID<br>- UL Target SIR                                          |                   | Real (-11 20 by step of 0.5dB)                   |         |
|                                                                       |                   | Reference to TS34.108 Parameter set.             |         |
| - Time info                                                           |                   |                                                  |         |
| - Activation time                                                     |                   | (256+CFN-(CFN MOD 8 + 8))MOD 256                 |         |
| - Duration                                                            |                   | Infinite                                         |         |
| - Common timeslot info                                                |                   | Defections in "F                                 |         |
| - 2 <sup>nd</sup> interleaving mode                                   |                   | Default value is "Frame"                         |         |
| - TFCI coding                                                         |                   | Reference to TS34.108 clause 6 Parameter         |         |
| - Puncturing limit                                                    |                   | set Reference to TS34.108 clause 6 Parameter set |         |
| - Repetition period                                                   |                   | 1                                                |         |
| - Repetition length                                                   |                   |                                                  |         |
| - Uplink DPCH timeslots and code                                      |                   |                                                  |         |
| - Dynamic SF usage                                                    |                   | FALSE                                            |         |
| - First individual timeslot info                                      |                   |                                                  |         |
| - Timeslot number                                                     |                   |                                                  |         |
| - CHOICE TDD option                                                   |                   | 1.28 Mcps TDD                                    |         |
| - Timeslot number                                                     |                   | 1 OR 2 OR 3                                      |         |
| - TFCI existence                                                      |                   | TRUE                                             |         |
| <ul> <li>Midamble shift and burst type</li> </ul>                     |                   |                                                  |         |
| - CHOICE TDD option                                                   |                   | 1.28 Mcps TTD                                    |         |
| <ul> <li>Midamble allocation mode</li> </ul>                          |                   | Default midamble                                 |         |
| <ul> <li>Midamble configuration</li> </ul>                            |                   | 16                                               |         |

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| Information Element                                     | Condition   | Value/remark                                   | Versio |
|---------------------------------------------------------|-------------|------------------------------------------------|--------|
| - Midamble Shift                                        |             | Not Present                                    |        |
| - CHOICE TDD option                                     |             | 1.28 Mcps TDD                                  |        |
| - Modulation                                            |             | QPSK                                           |        |
| - SS-TPC Symbols                                        |             | 1                                              |        |
| - Additional TPC-SS Symbols                             |             | Not present                                    |        |
| - First timeslot Code List                              |             | Repeated (1,2) for each channelisation code    |        |
| - 1 list timeslot dode List                             |             | assigned in the slot to meet the needs         |        |
|                                                         |             | of TS34.108 clause 6 Parameter Set.            |        |
| - channelisation codes                                  |             | (SF/ i) where i denotes an unassigned code     |        |
| - Grannensation codes                                   |             | matching the SF specified in TS34.108          |        |
|                                                         |             | clause 6 Parameter Set.                        |        |
| - CHOICE more timeslots                                 |             | No more timeslots                              |        |
| - UL CCTrCH List to Remove                              |             |                                                |        |
|                                                         |             | Not present                                    |        |
| CHOICE Mode                                             | A1, A2, A3, | TDD                                            |        |
| B                                                       | A4, A5, A6  | N.B.                                           |        |
| Downlink HS-PDSCH Information                           | A1, A2, A3, | Not Present                                    |        |
|                                                         | A4, A5, A6  |                                                |        |
| Downlink information common for all radio links         | A1, A2, A3  |                                                |        |
| - Downlink DPCH info common for all RL                  |             | NA-int-in                                      |        |
| - Timing indication                                     |             | Maintain                                       |        |
| - CFN-targetSFN frame offset                            |             | Not Present                                    |        |
| - Downlink DPCH power control information               |             |                                                |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - TPC Step Size                                         |             | 1                                              |        |
| - MAC-d HFN initial value                               |             | Not Present                                    |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - CHOICE TDD option                                     |             | 1.28 Mcps TDD                                  |        |
| - TSTD indicator                                        |             | FALSE                                          |        |
| - Default DPCH Offset Value                             | A 4         | Not Present                                    |        |
| Downlink information common for all radio links         | A4          |                                                |        |
| - Downlink DPCH info common for all RL                  |             | Initialia                                      |        |
| - Timing indication                                     |             | Initialise                                     |        |
| - CFN-targetSFN frame offset                            |             | Not Present                                    |        |
| Downlink DPCH power control information     CHOICE mode |             | TDD                                            |        |
|                                                         |             |                                                |        |
| - TPC Step Size<br>- MAC-d HFN initial value            |             | 1 Not Present                                  |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - CHOICE TIDD option                                    |             | 1.28 Mcps TDD                                  |        |
| - TSTD indicator                                        |             | FALSE                                          |        |
| - Default DPCH Offset Value                             |             | TALSE                                          |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - Default DPCH Offset Value                             |             | 0 Integer(07)                                  |        |
| Downlink information common for all radio links         | A5, A6      | Not Present                                    |        |
| Downlink information per radio link list                | A1, A2,A3   | Not i lesent                                   |        |
| - Downlink information for each radio link              | Λ1, Λ2,Λ3   |                                                |        |
| - Choice mode                                           |             | TDD                                            |        |
| - Primary CCPCH info                                    |             |                                                |        |
| - Choice mode                                           |             | TDD                                            |        |
| - Choice TDD Option                                     |             | 1.28 Mcps TDD                                  |        |
| - TSTD indicator                                        |             | FALSE                                          |        |
| - Cell parameters ID                                    |             | Ref. to the Default setting in TS34.108 clause |        |
| Comparamotoro ID                                        |             | 6.1 (TDD) Integer(0127)                        |        |
| - SCTD indicator                                        |             | FALSE                                          |        |
| - Downlink DPCH info for each RL                        |             |                                                |        |
| - CHOICE mode                                           |             | TDD                                            |        |
| - DL CCTrCh List                                        |             |                                                |        |
| - TFCS ID                                               |             | 2 Integer(1.8)                                 |        |
| - Time info                                             |             | 2 mogor(1.0)                                   |        |
| - Activation time                                       |             | Now                                            |        |
| - Duration                                              |             | Infinite                                       |        |
| - Common timeslot info                                  |             |                                                |        |
| - 2nd interleaving mode                                 |             | Default value is "Frame"                       |        |
| - TFCI coding                                           | +           | Reference to TS34.108 clause 6 Parameter       |        |
| - TEOLOUING                                             |             | Transfer to 1994. Too clause o Parameter       |        |

| - Puncturing limit  - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option  - Timeslot number - Timeslot number - Timeslot number - Timeslot number - Timeslot number - Timeslot number - Timeslot number - Timeslot number - Timeslot number - Timeslot number |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number 4 OR 5 OR 6                                                                                                                                                                            |  |
| - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number 4 OR 5 OR 6                                                                                                                                                                                                |  |
| - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number 4 OR 5 OR 6                                                                                                                                                                                                                    |  |
| - Timeslot number - CHOICE TDD option 1.28 Mcps TDD - Timeslot number 4 OR 5 OR 6                                                                                                                                                                                                                                                                           |  |
| - CHOICE TDD option 1.28 Mcps TDD - Timeslot number 4 OR 5 OR 6                                                                                                                                                                                                                                                                                             |  |
| - Timeslot number 4 OR 5 OR 6                                                                                                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                                                                                                                                                                                                                                                                                                             |  |
| - TFCI existence TRUE                                                                                                                                                                                                                                                                                                                                       |  |
| - Midamble shift and burst type                                                                                                                                                                                                                                                                                                                             |  |
| - CHOICE TDD option 1.28 Mcps TDD                                                                                                                                                                                                                                                                                                                           |  |
| - Midamble allocation mode Default midamble - Midamble configuration 16                                                                                                                                                                                                                                                                                     |  |
| - Midamble Configuration  - Midamble Shift  Not Present                                                                                                                                                                                                                                                                                                     |  |
| - CHOICE TDD option 1.28 Mcps TDD                                                                                                                                                                                                                                                                                                                           |  |
| - Modulation QPSK                                                                                                                                                                                                                                                                                                                                           |  |
| - SS-TPC Symbols 1                                                                                                                                                                                                                                                                                                                                          |  |
| - Additional TPC-SS Sysbols Not present                                                                                                                                                                                                                                                                                                                     |  |
| - First timeslot channelisation codes Repeated (1,2) for each channelisation code                                                                                                                                                                                                                                                                           |  |
| assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.                                                                                                                                                                                                                                                                                  |  |
| - CHOICE codes representation                                                                                                                                                                                                                                                                                                                               |  |
| - Channelisation codes bitmap Reference to TS34.108 clause 6.11 Parameter Set                                                                                                                                                                                                                                                                               |  |
| - CHOICE more timeslots No more timeslots                                                                                                                                                                                                                                                                                                                   |  |
| - UL CCTrCH TPC List  This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                                                                                                                                                                                                                                           |  |
| - UL TPC TFCS Identity                                                                                                                                                                                                                                                                                                                                      |  |
| - TFCS ID 1                                                                                                                                                                                                                                                                                                                                                 |  |
| - Shared Channel Indicator FALSE                                                                                                                                                                                                                                                                                                                            |  |
| - DL CCTrCH List to Remove Not present                                                                                                                                                                                                                                                                                                                      |  |
| - SCCPCH Information for FACH  Downlink information per radio link list  A4                                                                                                                                                                                                                                                                                 |  |
| - Downlink information for each radio link                                                                                                                                                                                                                                                                                                                  |  |
| - Choice mode TDD                                                                                                                                                                                                                                                                                                                                           |  |
| - Primary CCPCH info                                                                                                                                                                                                                                                                                                                                        |  |
| - Choice mode TDD                                                                                                                                                                                                                                                                                                                                           |  |
| - Choice TDD Option 1.28 Mcps TDD - TSTD indicator FALSE                                                                                                                                                                                                                                                                                                    |  |
| - Cell parameters ID Ref. to the Default setting in TS34.108 clause                                                                                                                                                                                                                                                                                         |  |
| 6.1 (TDD) Integer(0127)                                                                                                                                                                                                                                                                                                                                     |  |
| - SCTD indicator FALSE                                                                                                                                                                                                                                                                                                                                      |  |
| - Downlink DPCH info for each RL                                                                                                                                                                                                                                                                                                                            |  |
| - CHOICE mode TDD - DL CCTrCh List Not Present                                                                                                                                                                                                                                                                                                              |  |
| - DL CCTrCH List to Remove Not present                                                                                                                                                                                                                                                                                                                      |  |
| - SCCPCH Information for FACH Not Present                                                                                                                                                                                                                                                                                                                   |  |
| Downlink information per radio link list A5                                                                                                                                                                                                                                                                                                                 |  |
| - Downlink information for each radio link                                                                                                                                                                                                                                                                                                                  |  |
| - Choice mode - Primary CCPCH info                                                                                                                                                                                                                                                                                                                          |  |
| - Choice mode TDD                                                                                                                                                                                                                                                                                                                                           |  |
| - Choice TDD Option 1.28 Mcps TDD                                                                                                                                                                                                                                                                                                                           |  |
| - TSTD indicator FALSE                                                                                                                                                                                                                                                                                                                                      |  |
| - Cell parameters ID Ref. to the Default setting in TS34.108 clause                                                                                                                                                                                                                                                                                         |  |
| - SCTD indicator 6.1 (TDD) Integer(0127) FALSE                                                                                                                                                                                                                                                                                                              |  |
| - SCTD indicator - Downlink DPCH info for each RL Not Present                                                                                                                                                                                                                                                                                               |  |
| - SCCPCH Information for FACH  Not Present                                                                                                                                                                                                                                                                                                                  |  |
| Downlink information per radio link list A6 Not Present                                                                                                                                                                                                                                                                                                     |  |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL FACH from CELL FACH in PS" |

#### Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       |                                                                                                                                                                                                      |         |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message                                                                                    |         |
| Integrity check info                               |                                                                                                                                                                                                      |         |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                  | REL-4   |
| CHOICE TDD option                                  | 1.28 Mcps TDD                                                                                                                                                                                        | REL-4   |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronisation info                | Not checked                                                                                                                                                                                          |         |

# Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identitifer   | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.                                                                             |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

### Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL\_DCH)

| Information Element                                           | Value/remark                                                                                                                                                       |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                  |                                                                                                                                                                    |
| RRC transaction identifier                                    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info                                          |                                                                                                                                                                    |
| - Message authentication code                                 | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                 | SS provides the value of this IE, from its internal counter.                                                                                                       |
| CHOICE mode                                                   | TDD                                                                                                                                                                |
| - TFCS Id                                                     |                                                                                                                                                                    |
| - TFCS ID                                                     | 1                                                                                                                                                                  |
| - Shared Channel Indicator                                    | FALSE                                                                                                                                                              |
| DPCH/PUSCH TFCS in uplink                                     |                                                                                                                                                                    |
| - CHOICE Subset representation                                | Allowed transport format combination list                                                                                                                          |
| <ul> <li>Allowed transport format combination list</li> </ul> | 0 (The TFC is constructed from ALL TF0)                                                                                                                            |
| Activation time for TFC subset                                | Now                                                                                                                                                                |
| TFC Control duration                                          | Not Present                                                                                                                                                        |

### Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identitifer   | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.                                                                             |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

# Contents of RRC CONNECTION REJECT message: UM

| Information Element        | Value/remark                                               |
|----------------------------|------------------------------------------------------------|
| Message Type               |                                                            |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3             |
| Initial UE identity        | Select the same type as in the IE "Initial UE Identity" in |
|                            | RRC CONNECTION REQUEST" message.                           |
| Rejection cause            | Unspecified                                                |
| Wait Time                  | 0                                                          |
| Redirection info           | Not Present                                                |

# Contents of CELL UPDATE message: TM

| Information Element                             | Value/remark                                                |
|-------------------------------------------------|-------------------------------------------------------------|
| Message Type                                    |                                                             |
| U-RNTI                                          | Checked to see if it is set to the following values         |
| - SRNC identity                                 | 0000 0000 0001B                                             |
| - S-RNTI                                        | 0000 0000 0000 0000 0001B                                   |
| RRC transaction identifier                      | Checked to see if it is absent                              |
| Integrity check info                            |                                                             |
| <ul> <li>Message authentication code</li> </ul> | This IE is checked to see if it is present. The value is    |
|                                                 | compared against the XMAC-I value computed by SS.           |
|                                                 | The first/ leftmost bit of the bit string contains the most |
|                                                 | significant bit of the MAC-I.                               |
| <ul> <li>RRC Message sequence number</li> </ul> | This IE is checked to see if it is present. The value is    |
|                                                 | used by SS to compute the XMAC-I value.                     |
| START List                                      | Checked to see if the 'CN domain identity' and              |
|                                                 | 'START' IEs are present for all CN domains supported        |
|                                                 | by the UE                                                   |
| - CN domain identity                            | Checked to see if it is one of the supported CN             |
|                                                 | domains                                                     |
| - START                                         | Checked to see if it is present                             |
| AM_RLC error indication (RB2, RB3 or RB4)       | Checked to see if it is set to 'FALSE'                      |
| AM_RLC error indication (RB>4)                  | Checked to see if it is set to 'FALSE'                      |
| Cell update cause                               | See the test content                                        |
| Failure cause                                   | Checked to see if it is absent                              |
| RB timer indicator                              |                                                             |
| - T314 expired                                  | Checked to see if it is set to 'FALSE'                      |
| - T315 expired                                  | Checked to see if it is set to 'FALSE'                      |
| Measured results on RACH                        | Not checked                                                 |

# Contents of CELL UPDATE CONFIRM message: UM

| Information Element                             | Value/remark                                                                                                                    |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                    |                                                                                                                                 |
| U-RNTĬ                                          | If this message is sent on CCCH, use the following values. Else, this IE is absent.                                             |
| - SRNC identity                                 | 0000 0000 0001B                                                                                                                 |
| - S-RNTI                                        | 0000 0000 0000 0000 0001B                                                                                                       |
| RRC transaction identifier Integrity check info | Selects an arbitrary integer between 0 to 3                                                                                     |
| - Message authentication code                   | Set to MAC-I value computed by the SS. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence Number                   | Set to an arbitrarily selected integer between 0 and 15                                                                         |

| I v =                           |
|---------------------------------|
| Not Present                     |
| Not Present                     |
| Not Present – use default value |
| Not Present                     |
| Not Present                     |
| Not Present                     |
| CELL_FACH                       |
| Not Present                     |
| FALSE                           |
|                                 |
| FALSE                           |
|                                 |
| Not Present                     |
|                                 |
| 0000 0000 0000 0001B            |
| Not Present                     |
|                                 |
| Not Present                     |
| Not Present                     |
| TDD                             |
| Not Present                     |
|                                 |
| Not Present                     |
| TDD                             |
| Not Present                     |
|                                 |
| Not Present                     |
|                                 |

### Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

| Information Element                               | Value/remark                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                      |                                                                                                                                                                                                                                                                                                   |
| RRC transaction identifier                        | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                                                                                                    |
| Integrity check info                              |                                                                                                                                                                                                                                                                                                   |
| - Message authentication code                     | Set to MAC-I value computed by the SS. The first/<br>leftmost bit of the bit string contains the most<br>significant bit of the MAC-I                                                                                                                                                             |
| <ul> <li>RRC Message sequence number</li> </ul>   | Set to an arbitrarily selected integer between 0 and 15                                                                                                                                                                                                                                           |
| Activation time                                   | Not Present – use default value 'now'                                                                                                                                                                                                                                                             |
| RAB info                                          | For each RAB to be handed over. In this version, the maximum size of the list of 1 shall be applied for all system types.                                                                                                                                                                         |
| - RAB identity                                    | 0000 0001B                                                                                                                                                                                                                                                                                        |
| - CN domain identity                              | CS domain                                                                                                                                                                                                                                                                                         |
| <ul> <li>NAS Synchronization Indicator</li> </ul> | Not present                                                                                                                                                                                                                                                                                       |
| - Re-establishment time                           | Use T315                                                                                                                                                                                                                                                                                          |
| CHOICE System type                                | GSM                                                                                                                                                                                                                                                                                               |
| - Frequency band                                  | Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"                                                                                                                                                                                                |
| - CHOIC GSM message                               | Single GSM message                                                                                                                                                                                                                                                                                |
| - Single GSM message                              | GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1512). The first/ leftmost/ most significant bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case. |

# Contents of HANDOVER FROM UTRAN FAILURE message: AM

| Information Element/Group name     | Value/remark                                                                                                                                                                                         |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                       |                                                                                                                                                                                                      |
| RRC transaction identifier         | Checked to see if it matches the same value used in<br>the corresponding downlink HANDOVER FROM<br>UTRAN COMMAND –GSM message                                                                        |
| Integrity check info               |                                                                                                                                                                                                      |
| - Message authentication code      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Inter-RAT handover failure         |                                                                                                                                                                                                      |
| - Inter-RAT handover failure cause | physical channel failure                                                                                                                                                                             |
| - Protocol error information       | Check to see if it is absent                                                                                                                                                                         |
| Inter-system message               | Not checked                                                                                                                                                                                          |

Contents of MEASUREMENT CONTROL Message: AM (Intra-frequence measurement) (1.28 Mcps TDD)

| Information Element  Message Type UE information elements RRC transaction identifier Integrity check info - Message authentication code  - RRC message sequence number Measurement information elements Measurement Identity  Message Type  Arbitrarily selects an unused integer between 0 to SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit stricontains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal contains the most significant bit of the MAC-I.                                                                                                                                                                   | and<br>ng |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| UE information elements RRC transaction identifier Integrity check info - Message authentication code - RRC message sequence number  Measurement information elements  Arbitrarily selects an unused integer between 0 to SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit strictontains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal of the strictontains the most significant bit of the MAC-I.                                                                                                                                                                                                                           | and<br>ng |
| RRC transaction identifier Integrity check info - Message authentication code - RRC message sequence number  Measurement information elements  Arbitrarily selects an unused integer between 0 to SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit strictontains the most significant bit of the MAC-I.  SS provides the value of this IE, from its internal of the strictontains the most significant bit of the MAC-I.                                                                                                                                                                                                                                                  | and<br>ng |
| Integrity check info - Message authentication code SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit stricontains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal comparation elements                                                                                                                                                                                                                                                                                                                                                                                                                                          | and<br>ng |
| writes to this IE. The first/ leftmost bit of the bit striction contains the most significant bit of the MAC-I.  - RRC message sequence number  SS provides the value of this IE, from its internal of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the MAC-I. | ng        |
| Measurement information elements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ounter.   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |
| Measurement Command Setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| Measurement Reporting Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |
| - Measurement Report Transfer Mode Acknowledged mode RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |
| - Periodical Reporting/Event Trigger Reporting  Mode  Periodical reporting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |
| Additional measurement list Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| CHOICE Measurement type Intra-frequency measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| - Intra-frequency measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |
| - Intra-frequency cell info list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| - CHOICE intra-frequency cell removal  Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |
| - New intra-frequency cell - Intra-frequency cell-id 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| - Intra-frequency cell-id 1 - Cell info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| - Cell individual offset 0dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
| - Reference time difference to cell Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |
| - Read SFN number FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| - CHOICE mode TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| - Primary CCPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
| - CHOICE mode TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| - CHOICE TDD option 1.28 Mcps TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| -TSTD indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | rdd)      |
| - Cell parameters ID Reference clause 6.1.4 Default settings for cell 1(**) - SCTD indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (טטו      |
| - Primary CCPCH Tx power Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
| - Timeslot list Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
| - Cells for measurement Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| - Intra-frequency measurement quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| - Filter coefficient Not present (use default 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| - CHOICE mode - Measurement quantity list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Measurement quantity Primary CCPCH RSCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Intra-frequency reporting quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
| - Reporting quantities for active set cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
| - Cell synchronisation information reporting indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| - Cell Identity reporting indicator TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |
| - CHOICE mode TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| - Timeslot ISCP reporting indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Proposed TGSN reporting indicator FALSE - Primary CCPCH RSCP reporting indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |
| - Pathloss reporting indicator FALSE - Pathloss reporting indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Reporting quantities for monitored set cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |
| - Cell synchronisation information reporting FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |
| indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Cell Identity reporting indicator TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |
| - CHOICE mode TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| - Timeslot ISCP reporting indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Proposed TGSN reporting indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| - Primary CCPCH RSCP reporting indicator FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |
| <ul> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for detected set cells</li> </ul>                                                                                                                                                                |           |
| - Reporting quantities for detected set cells Not present Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |
| - Measurement validity  Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| - CHOICE report criteria Intra-frequency measurement reporting criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |

| <ul> <li>Parameters required for each event</li> </ul> |                                                            |
|--------------------------------------------------------|------------------------------------------------------------|
| <ul> <li>Intra-frequency event identity</li> </ul>     | 1g                                                         |
| - Triggering condition 1                               | Not present                                                |
|                                                        | (this IE is MP only for event "1b" or "1f", TDD should not |
|                                                        | present)                                                   |
| - Triggering condition 2                               | Not present                                                |
| Triggering condition 2                                 | (this IE is MP only for event "1c", TDD should not         |
|                                                        | present)                                                   |
| - Reporting Range Constant                             | Not present                                                |
| Reporting Range Constant                               | (this IE is MP only for event "1a" or "1b", TDD should not |
|                                                        | present)                                                   |
| - Cells forbidden to affect Reporting range            | Not present                                                |
| - Cells forbidden to affect Reporting range            | (this IE is MP only for event "1a" or "1b", TDD should not |
|                                                        | present)                                                   |
| - W                                                    | Not present                                                |
| - vv                                                   |                                                            |
|                                                        | (this IE is MP only for event "1a" or "1b", TDD should not |
| Lhistoropia                                            | present)                                                   |
| - Hysteresis                                           | 0 dBm                                                      |
| - Threshold used frequency                             | Not present                                                |
| <b>D</b>                                               | (this IE is MP only for event "1e", "1f", "1h" or "1i")    |
| - Reporting deactivation                               | Not present                                                |
| threshold                                              | (this IE is MP only for event '1a', TDD should not         |
|                                                        | present)                                                   |
| - Replacement activation                               | Not present                                                |
| threshold                                              | (this IE is MP only for event '1c' TDD should not present) |
| - Time to trigger                                      | 0 ms                                                       |
| - Amount of reporting                                  | Not present                                                |
|                                                        | (this IE is MP only for event '1a' or '1c' TDD should not  |
|                                                        | present)                                                   |
| - Reporting interval                                   | Not present                                                |
|                                                        | (this IE is MP only for event '1a' or '1c', TDD should not |
|                                                        | present)                                                   |
| - Reporting cell status                                | Not present                                                |
| Physical channel information elements                  |                                                            |
| DPCH Compressed mode status info                       | Not Present                                                |

Contents of MEASUREMENT CONTROL Message: AM (Inter-frequence measurement) (1.28 Mcps TDD)

| Information Florant                                                                   |                                                                                                        |  |  |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--|--|
| Information Element                                                                   | Value/remark                                                                                           |  |  |
| Message Type UE information elements                                                  |                                                                                                        |  |  |
| RRC transaction identifier                                                            | Arbitrarily colocts on unused integer between 0 to 2                                                   |  |  |
| Integrity check info                                                                  | Arbitrarily selects an unused integer between 0 to 3                                                   |  |  |
| - Message authentication code                                                         | SS calculates the value of MAC-I for this message and                                                  |  |  |
| Message admentication code                                                            | writes to this IE. The first/ leftmost bit of the bit string                                           |  |  |
|                                                                                       | contains the most significant bit of the MAC-I.                                                        |  |  |
| - RRC message sequence number                                                         | SS provides the value of this IE, from its internal counter.                                           |  |  |
| Measurement information elements                                                      | •                                                                                                      |  |  |
| Measurement Identity                                                                  | 2                                                                                                      |  |  |
| Measurement Command                                                                   | Setup                                                                                                  |  |  |
| Measurement Reporting Mode                                                            |                                                                                                        |  |  |
| - Measurement Report Transfer Mode                                                    | Acknowledged mode RLC                                                                                  |  |  |
| - Periodical Reporting/Event Trigger Reporting                                        | Periodical reporting                                                                                   |  |  |
| Mode Additional measurement list                                                      | Not present                                                                                            |  |  |
| CHOICE Measurement type                                                               | Inter-frequency measurement                                                                            |  |  |
| - Inter-frequency measurement                                                         | inter-frequency measurement                                                                            |  |  |
| - Inter-frequency cell info list                                                      |                                                                                                        |  |  |
| - CHOICE inter-frequency cell removal                                                 | Not present                                                                                            |  |  |
| - New inter-frequency cell                                                            | ·                                                                                                      |  |  |
| - Inter-frequency cell-id                                                             | 4                                                                                                      |  |  |
| - Frequency info                                                                      |                                                                                                        |  |  |
| - CHOICE mode                                                                         | TDD                                                                                                    |  |  |
| - UARFCN (Nt)                                                                         | Reference to table 6.1.7 for cell 4                                                                    |  |  |
| - Cell info                                                                           | 0dB                                                                                                    |  |  |
| <ul> <li>Cell individual offset</li> <li>Reference time difference to cell</li> </ul> | Not Present                                                                                            |  |  |
| - Read SFN number                                                                     | FALSE                                                                                                  |  |  |
| - CHOICE mode                                                                         | TDD                                                                                                    |  |  |
| - Primary CCPCH info                                                                  | 155                                                                                                    |  |  |
| - CHOICE mode                                                                         | TDD                                                                                                    |  |  |
| - CHOICE TDD option                                                                   | 1.28 Mcps TDD                                                                                          |  |  |
| -TSTD indicator                                                                       | FALSE                                                                                                  |  |  |
| - Cell parameters ID                                                                  | Reference clause 6.1.4 Default settings for cell 4(TDD)                                                |  |  |
| - SCTD indicator                                                                      | FALSE                                                                                                  |  |  |
| - Primary CCPCH Tx power                                                              | Not present                                                                                            |  |  |
| - Timeslot list - Cells for measurement                                               | Not present                                                                                            |  |  |
| - Cells for measurement - Inter-frequency measurement quantity                        | Not present                                                                                            |  |  |
| - CHOICE reporting criteria                                                           | Inter-frequency reporting criteria                                                                     |  |  |
| Inter-frequency reporting criteria                                                    | The requestoy reporting enteria                                                                        |  |  |
| - Filter coefficient                                                                  | Not present (use default 0)                                                                            |  |  |
| - CHOICE mode                                                                         | TDD '                                                                                                  |  |  |
| <ul> <li>Measurement quantity for frequency quality</li> </ul>                        | Primary CCPCH RSCP                                                                                     |  |  |
| estimate                                                                              |                                                                                                        |  |  |
| - Inter-frequency reporting quantity                                                  | EALOE                                                                                                  |  |  |
| - UTRA Carrier RSSI                                                                   | FALSE                                                                                                  |  |  |
| - Frequency quality estimate                                                          | FALSE This parameters is not used in this release and should be                                        |  |  |
|                                                                                       | This parameters is not used in this release and should be set to FALSE. It shall be ignored by the UE. |  |  |
| - Non frequency related cell reporting quantities                                     | Set to I ALOL. It shall be ignored by the OE.                                                          |  |  |
| - Cell synchronisation information reporting                                          | FALSE                                                                                                  |  |  |
| indicator                                                                             | -                                                                                                      |  |  |
| - Cell Identity reporting indicator                                                   | FALSE                                                                                                  |  |  |
| - CHOICE mode                                                                         | TDD                                                                                                    |  |  |
| <ul> <li>Timeslot ISCP reporting indicator</li> </ul>                                 | FALSE                                                                                                  |  |  |
| - Proposed TGSN reporting indicator                                                   | FALSE                                                                                                  |  |  |
| - Primary CCPCH RSCP reporting indicator                                              | FALSE                                                                                                  |  |  |
| - Pathloss reporting indicator                                                        | FASLE<br>Not present                                                                                   |  |  |
| <ul> <li>Reporting cell status</li> <li>Measurement validity</li> </ul>               | Not present                                                                                            |  |  |
| - Measurement validity - Inter-frequency set update                                   | Not present<br>Not present                                                                             |  |  |
| - inter-nequency set upuate                                                           | (this IE only for FDD)                                                                                 |  |  |
| - CHOICE report criteria                                                              | Inter-frequency measurement reporting criteria                                                         |  |  |
| 3110102 10port 01110110                                                               | inter requertey measurement reporting enteria                                                          |  |  |

| - Parameters required for each event                      |                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------|
| <ul> <li>Inter-frequency event identity</li> </ul>        | 2b                                                             |
| <ul> <li>Threshold used frequency</li> </ul>              | -70dBm                                                         |
|                                                           | (this IE is MP for event 2b, 2d, or 2f                         |
|                                                           | Ranges used depend on measurement quantity.                    |
|                                                           | CPICH Ec/No -240dB                                             |
|                                                           | CPICH/Primary CCPCH RSCP -11525dBm)                            |
| - W used frequency                                        | 0                                                              |
|                                                           | (this IE is MP for event 2a, 2b, 2d or 2f                      |
|                                                           | Real(0, 0.12.0 by step of 0.1))                                |
| - Hysteresis                                              | 1 dBm                                                          |
| - Time to trigger                                         | 5000 ms                                                        |
| - Reporting cell status                                   | Within active set or within virtual active set or of the other |
|                                                           | RAT                                                            |
| <ul> <li>Maximum number of reporting cells</li> </ul>     | 1                                                              |
| <ul> <li>Parameters required for each non-used</li> </ul> |                                                                |
| frequency                                                 |                                                                |
| - Threshold non used frequency                            | -70 dBm                                                        |
| ·                                                         | (this IE is MP for event 2a, 2b, 2c or 2e                      |
|                                                           | Ranges used depend on measurement quantity.                    |
|                                                           | CPICH Ec/No -240dB                                             |
|                                                           | CPICH/Primary CCPCH RSCP -11525dBm.                            |
|                                                           | This IE is not needed if the IE "Inter-frequency event         |
|                                                           | identity" is set to 2a. However, it is specified to be         |
|                                                           | mandatory to align with the ASN.1)                             |
| - W non-used frequency                                    | 0                                                              |
| , ,                                                       | (this IE is MP if 2a, 2b, 2c or 2e                             |
|                                                           | Real(0, 0.12.0 by step of 0.1))                                |
| Physical channel information elements                     |                                                                |
| DPCH Compressed mode status info                          | Not Present                                                    |

## Contents of MEASUREMENT CONTROL FAILURE Message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message                                                                                        |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | See the test content                                                                                                                                                                                 |

Contents of MEASUREMENT REPORT message: AM intra-frequency measurement (1.28 Mcps TDD)

| Information Element                                           | Value/remark                                                                                                                                                                                         |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                  |                                                                                                                                                                                                      |
| Integrity check info                                          |                                                                                                                                                                                                      |
| - Message authentication code                                 | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                 | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Measurement identity Measured Results                         | 1                                                                                                                                                                                                    |
| - Intra-frequency measured results                            |                                                                                                                                                                                                      |
| - Cell measured results                                       |                                                                                                                                                                                                      |
| - Cell Identity                                               | Checked that this IE is present                                                                                                                                                                      |
| <ul> <li>Cell synchronisation information</li> </ul>          | Checked that this IE is absent                                                                                                                                                                       |
| - CHOICE mode                                                 | TDD                                                                                                                                                                                                  |
| - Cell parameters Id                                          | Different from the Default setting in TS34.108 clause 6.1 (TDD)                                                                                                                                      |
| - Proposed TGSN                                               | Checked that this IE is absent                                                                                                                                                                       |
| - Primary CCPCH RSCP                                          | Checked that this IE is absent                                                                                                                                                                       |
| - Pathloss                                                    | Checked that this IE is absent                                                                                                                                                                       |
| - Timeslot list                                               | Checked that this IE is absent                                                                                                                                                                       |
| Measured results on RACH                                      | Checked that this IE is absent                                                                                                                                                                       |
| Additional measured results                                   | Checked that this IE is absent                                                                                                                                                                       |
| Event results                                                 |                                                                                                                                                                                                      |
| - CHOICE event result                                         | Intra-frequency measurement event results                                                                                                                                                            |
| <ul> <li>Intra-frequency measurement event results</li> </ul> |                                                                                                                                                                                                      |
| - Intra-frequency event identity                              | lg                                                                                                                                                                                                   |
| - Cell measurement event results                              |                                                                                                                                                                                                      |
| - CHOICE mode                                                 | TDD                                                                                                                                                                                                  |
| - Primary CCPCH info                                          |                                                                                                                                                                                                      |
| - CHOICE mode                                                 | TDD                                                                                                                                                                                                  |
| - CHOICE TDD option                                           | 1.28 Mcps TDD                                                                                                                                                                                        |
| -TSTD indicator                                               | FALSE                                                                                                                                                                                                |
| - Cell parameters ID - SCTD indicator                         | Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE                                                                                                                                        |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (1.28 Mcps TDD)

| Value/remark                                                                                                                                                                                         | Versio                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                                                                                                                                                                                                                                                                                                                                                                                        |
| This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        |
| 1                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                        |
| Checked that this IE is absent                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                        |
| Checked that this IE is absent                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                        |
| Checked that this IE is absent                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| Inter-frequency measurement event results                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| 2b                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| TDD                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                        |
| טטו                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                        |
| TDD                                                                                                                                                                                                  | ıl                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| 1                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
| 1                                                                                                                                                                                                    | REL-4                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                      | compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.  1 Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Inter-frequency measurement event results |

## Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element                   | Condition         | Value/remark                                                                                                                                                       | Version |
|---------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                          | A1, A2, A3,       |                                                                                                                                                                    |         |
|                                       | A4, A5, A6        |                                                                                                                                                                    |         |
| RRC transaction identifier            |                   | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         |
| Integrity check info                  |                   |                                                                                                                                                                    |         |
| - message authentication code         |                   | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC message sequence number         |                   | SS provides the value of this IE, from its internal counter.                                                                                                       |         |
| Integrity protection mode info        |                   | Not Present                                                                                                                                                        |         |
| Ciphering mode info                   |                   | Not Present                                                                                                                                                        |         |
| Activation time                       | A1, A2, A3        | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         |
| Activation time                       | A4, A5, A6        | Now                                                                                                                                                                |         |
| New U-RNTI                            |                   | Not Present                                                                                                                                                        |         |
| New C-RNTI                            | A1, A2, A3,<br>A4 | Not Present                                                                                                                                                        |         |
| New C-RNTI                            | A5, A6            | '1010 1010 1010 1010'                                                                                                                                              |         |
| New DSCH-RNTI                         | A1, A2, A3,       | Not Present                                                                                                                                                        |         |
|                                       | A4, A5, A6        |                                                                                                                                                                    |         |
| New H-RNTI                            | A1, A2, A3,       | Not Present                                                                                                                                                        | REL-5   |
|                                       | A4, A5, A6        |                                                                                                                                                                    |         |
| RRC State indicator                   | A1, A2, A3,       | CELL_DCH                                                                                                                                                           |         |
|                                       | A4                |                                                                                                                                                                    |         |
| RRC State indicator                   | A5, A6            | CELL_FACH                                                                                                                                                          |         |
| UTRAN DRX cycle length coefficient    | A1, A2, A3,       | Not Present                                                                                                                                                        |         |
|                                       | A4, A5, A6        |                                                                                                                                                                    |         |
| CN information info                   |                   | Not Present                                                                                                                                                        |         |
| URA identity                          |                   | Not Present                                                                                                                                                        |         |
| Downlink counter synchronisation info |                   | Not Present                                                                                                                                                        |         |

| Information Element                                                                | Condition   | Value/remark                             | Version |
|------------------------------------------------------------------------------------|-------------|------------------------------------------|---------|
| Frequency info                                                                     | A1, A2, A3, |                                          |         |
|                                                                                    | A4, A5      |                                          |         |
| - Choice mode                                                                      |             | TDD                                      |         |
| - UARFCN (Nt)                                                                      | A6          | Reference to clause 5.1 Test frequencies |         |
| Frequency info  Maximum allowed UL TX power                                        | Ab          | Not Present<br>33dBm                     |         |
| CHOICE channel requirement                                                         | A5, A6      | Not Present                              |         |
| CHOICE channel requirement                                                         | A1, A2, A3, | Uplink DPCH info                         |         |
| oriolog charmer requirement                                                        | A4          | Opinik Bi Girinio                        |         |
| - Uplink DPCH power control info                                                   |             |                                          |         |
| - CHOICE mode                                                                      |             | TDD                                      |         |
| - CHOICE TDD option                                                                |             | 1.28 Mcps TDD                            |         |
| - PRXPDPCHdes                                                                      |             | -80 Integer(-12058 by step of 1)         |         |
| - CHOICE UL OL PC info                                                             |             | Individually Signalled                   |         |
| - CHOICE TDD option                                                                |             | 1.28 Mcps TDD                            |         |
| - TPC step size                                                                    |             | 1                                        |         |
| - Primary CCPCH Tx Power                                                           |             | 20 Integer(643)                          |         |
| - CHOICE mode                                                                      |             | TDD                                      |         |
| <ul> <li>Uplink Timing Advance Control</li> <li>CHOICE Timing Advance</li> </ul>   |             | Enabled                                  |         |
| - CHOICE TITIING Advance                                                           |             | 1.28 Mcps TDD                            |         |
| Uplink synchronisation parameters                                                  |             | 1.20 IVIOPS 100                          |         |
| - Uplink synchronisation step size                                                 |             | 1                                        |         |
| - Uplink synchronisation frequency                                                 |             | 1                                        |         |
| - Synchronisation parameters                                                       |             |                                          |         |
| - SYNC_UL codes bitmap                                                             |             | 01010101                                 |         |
| - FPACH info                                                                       |             |                                          |         |
| - Timeslot number                                                                  |             | 0                                        |         |
| <ul> <li>Channelisation code</li> </ul>                                            |             | 16/15                                    |         |
| <ul> <li>Midamble Shift and burst type</li> </ul>                                  |             |                                          |         |
| - CHOICE TDD option                                                                |             | 1.28 Mcps TDD                            |         |
| - Midamble Allocation Mode                                                         |             | Default midamble                         |         |
| <ul> <li>Midamble configuration</li> <li>WT</li> </ul>                             |             | 16 Integer(2, 4, 6, 8, 10, 12, 14, 16)   |         |
| - w i<br>- PRXUpPCHdes                                                             |             | 4 Integer(14)<br>-80 dBm                 |         |
| - SYNC_UL procedure                                                                |             | -00 dBill                                |         |
| - Max SYNC_UL Transmissions                                                        |             | 2                                        |         |
| - Power Ramp Step                                                                  |             | 2                                        |         |
| - UL CCTrCH List                                                                   |             |                                          |         |
| - TFCS ID                                                                          |             | 1                                        |         |
| - UL Target SIR                                                                    |             | Real (-11 20 by step of 0.5dB)           |         |
|                                                                                    |             | Reference to TS34.108 Parameter set.     |         |
| - Time info                                                                        |             |                                          |         |
| - Activation time                                                                  |             | (256+CFN-(CFN MOD 8 + 8))MOD 256         |         |
| - Duration                                                                         |             | Infinite                                 |         |
| <ul> <li>Common timeslot info</li> <li>2<sup>nd</sup> interleaving mode</li> </ul> |             | Default value is "Frame"                 |         |
| - 2 Interleaving mode - TFCI coding                                                |             | Reference to TS34.108 clause 6 Parameter |         |
| - TFOI Couling                                                                     |             | set                                      |         |
| - Puncturing limit                                                                 |             | Reference to TS34.108 clause 6 Parameter |         |
| r drietaring in the                                                                |             | set                                      |         |
| - Repetition period                                                                |             | 1                                        |         |
| - Repetition length                                                                |             | Null                                     |         |
| <ul> <li>Uplink DPCH timeslots and code</li> </ul>                                 |             |                                          |         |
| - Dynamic SF usage                                                                 |             | FALSE                                    |         |
| <ul> <li>First individual timeslot info</li> </ul>                                 |             |                                          |         |
| - Timeslot number                                                                  |             | 4.00.14                                  |         |
| - CHOICE TDD option                                                                |             | 1.28 Mcps TDD                            |         |
| - Timeslot number                                                                  |             | 1 OR 2 OR 3                              |         |
| - TFCI existence                                                                   |             | TRUE                                     |         |
| - Midamble shift and burst type                                                    |             | 1 28 Mone TDD                            |         |
| <ul> <li>CHOICE TDD option</li> <li>Midamble allocation mode</li> </ul>            |             | 1.28 Mcps TDD Default midamble           |         |
| Midamble allocation mode     Midamble configuration                                |             | 16                                       |         |
| - Midamble Shift                                                                   |             | Not Present                              |         |
| - CHOICE TDD option                                                                |             | 1.28 Mcps TDD                            |         |
| - CECICE 11717 ODUCU                                                               |             |                                          |         |

| Information Element                             | Condition   | Value/remark                                   | Version |
|-------------------------------------------------|-------------|------------------------------------------------|---------|
| - SS-TPC Symbols                                |             | 1                                              |         |
| <ul> <li>Additional TPC-SS Symbols</li> </ul>   |             | Not present                                    |         |
| - First timeslot Code List                      |             | Repeated (1,2) for each channelisation code    |         |
|                                                 |             | assigned in the slot to meet the               |         |
|                                                 |             | needs of TS34.108 clause 6                     |         |
|                                                 |             | Parameter Set.                                 |         |
| - channelisation codes                          |             | (SF/ i) where i denotes an unassigned code     |         |
|                                                 |             | matching the SF specified in                   |         |
|                                                 |             | TS34.108 clause 6 Parameter Set.               |         |
| - CHOICE more timeslots                         |             | No more timeslots                              |         |
| - UL CCTrCH List to Remove                      |             | Not present                                    |         |
| CHOICE Mode                                     | A1, A2, A3, | TDD                                            |         |
|                                                 | A4, A5, A6  |                                                |         |
| Downlink HS-PDSCH Information                   | A1, A2, A3, | Not Present                                    | REL-5   |
|                                                 | A4, A5, A6  |                                                |         |
| Downlink information common for all radio links | A1, A2, A3  |                                                |         |
| - Downlink DPCH info common for all RL          |             |                                                |         |
| - Timing indication                             |             | Maintain                                       |         |
| - CFN-targetSFN frame offset                    |             | Not Present                                    |         |
| - Downlink DPCH power control information       |             |                                                |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - TPC Step Size                                 |             | 1                                              |         |
| - MAC-d HFN initial value                       |             | Not Present                                    |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - CHOICE TDD option                             |             | 1.28 Mcps TDD                                  |         |
| - TSTD indicator                                |             | FALSE                                          |         |
| - Default DPCH Offset Value                     |             | Not Present                                    |         |
| Downlink information common for all radio links | A4          |                                                |         |
| - Downlink DPCH info common for all RL          |             |                                                |         |
| - Timing indication                             |             | Initialise                                     |         |
| - CFN-targetSFN frame offset                    |             | Not Present                                    |         |
| - Downlink DPCH power control information       |             |                                                |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - TPC Step Size                                 |             | 1                                              |         |
| - MAC-d HFN initial value                       |             | Not Present                                    |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - CHOICE TDD option                             |             | 1.28 Mcps TDD                                  |         |
| - TSTD indicator                                |             | FALSE                                          |         |
| - Default DPCH Offset Value                     |             |                                                |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - Default DPCH Offset Value                     |             | 0 Integer(07)                                  |         |
| Downlink information common for all radio links | A5, A6      | Not Present                                    |         |
| Downlink information per radio link list        | A1, A2,A3   |                                                |         |
| - Downlink information for each radio link      | , ,         |                                                |         |
| - Choice mode                                   |             | TDD                                            |         |
| - Primary CCPCH info                            |             |                                                |         |
| - Choice mode                                   |             | TDD                                            |         |
| - Choice TDD Option                             |             | 1.28 Mcps TDD                                  |         |
| - TSTD indicator                                |             | FALSE                                          |         |
| - Cell parameters ID                            |             | Ref. to the Default setting in TS34.108 clause |         |
|                                                 |             | 6.1 (TDD) Integer(0127)                        |         |
| - SCTD indicator                                |             | FALSE                                          |         |
| - Downlink DPCH info for each RL                |             |                                                |         |
| - CHOICE mode                                   |             | TDD                                            |         |
| - DL CCTrCh List                                |             |                                                |         |
| - TFCS ID                                       |             | 2 Integer(1.8)                                 |         |
| - Time info                                     |             |                                                |         |
| - Activation time                               |             | Now                                            |         |
| - Duration                                      |             | Infinite                                       |         |
| - Common timeslot info                          |             |                                                |         |
| - 2nd interleaving mode                         |             | Default value is "Frame"                       |         |
| - TFCI coding                                   |             | Reference to TS34.108 clause 6 Parameter       |         |
|                                                 |             | set                                            |         |
| - Puncturing limit                              |             | Reference to TS34.108 clause 6 Parameter       |         |
|                                                 |             | set                                            |         |

| Information Element                                     | Condition | Value/remark                                   | Version |
|---------------------------------------------------------|-----------|------------------------------------------------|---------|
| - Repetition period                                     |           | 1                                              |         |
| - Repetition length                                     |           | NULL                                           |         |
| <ul> <li>Downlink DPCH timeslots and codes</li> </ul>   |           |                                                |         |
| <ul> <li>First individual timeslot info</li> </ul>      |           |                                                |         |
| - Timeslot number                                       |           |                                                |         |
| - CHOICE TDD option                                     |           | 1.28 Mcps TDD                                  |         |
| - Timeslot number                                       |           | 4 OR 5 OR 6                                    |         |
| - TFCI existence                                        |           | TRUE                                           |         |
| - Midamble shift and burst type                         |           | 1                                              |         |
| - CHOICE TDD option                                     |           | 1.28 Mcps TDD                                  |         |
| - Midamble allocation mode                              |           | Default midamble                               |         |
|                                                         |           | 16                                             |         |
| - Midamble configuration                                |           |                                                |         |
| - Midamble Shift                                        |           | Not Present                                    |         |
| - CHOICE TDD option                                     |           | 1.28 Mcps TDD                                  |         |
| - Modulation                                            |           | QPSK                                           |         |
| - SS-TPC Symbols                                        |           | 1                                              |         |
| <ul> <li>Additional TPC-SS Sysbols</li> </ul>           |           | Not present                                    |         |
| <ul> <li>First timeslot channelisation codes</li> </ul> |           | Repeated (1,2) for each channelisation code    |         |
|                                                         |           | assigned in the slot to meet the               |         |
|                                                         |           | needs of TS34.108 clause 6                     |         |
|                                                         |           | Parameter Set.                                 |         |
| - CHOICE codes representation                           |           | r dramotor con                                 |         |
| - Channelisation codes bitmap                           |           | Reference to TS34.108 clause 6.11              |         |
| Chambilisation codes bitmap                             |           | Parameter Set                                  |         |
| - CHOICE more timeslots                                 |           | No more timeslots                              |         |
|                                                         |           |                                                |         |
| - UL CCTrCH TPC List                                    |           | This list is not required for 1.28 Mcps TDD    |         |
| III TD0 T500 II (*)                                     |           | and is to be ignored by the UE.                |         |
| - UL TPC TFCS Identity                                  |           |                                                |         |
| - TFCS ID                                               |           | 1                                              |         |
| - Shared Channel Indicator                              |           | FALSE                                          |         |
| - DL CCTrCH List to Remove                              |           | Not present                                    |         |
| - SCCPCH Information for FACH                           |           | Not Present                                    |         |
| Downlink information per radio link list                | A4        |                                                |         |
| - Downlink information for each radio link              |           |                                                |         |
| - Choice mode                                           |           | TDD                                            |         |
| - Primary CCPCH info                                    |           |                                                |         |
| - Choice mode                                           |           | TDD                                            |         |
| - Choice TDD Option                                     |           | 1.28 Mcps TDD                                  |         |
| - TSTD indicator                                        |           | FALSE                                          |         |
|                                                         |           | =                                              |         |
| - Cell parameters ID                                    |           | Ref. to the Default setting in TS34.108 clause |         |
| OOTD in directors                                       |           | 6.1 (TDD) Integer(0127)                        |         |
| - SCTD indicator                                        |           | FALSE                                          |         |
| - Downlink DPCH info for each RL                        |           |                                                |         |
| - CHOICE mode                                           |           | TDD                                            |         |
| - DL CCTrCh List                                        |           | Not Present                                    |         |
| - DL CCTrCH List to Remove                              |           | Not present                                    |         |
| - SCCPCH Information for FACH                           |           | Not Present                                    |         |
| Downlink information per radio link list                | A5        |                                                |         |
| - Downlink information for each radio link              | -         |                                                |         |
| - Choice mode                                           |           | TDD                                            |         |
| - Primary CCPCH info                                    |           |                                                |         |
| - Choice mode                                           |           | TDD                                            |         |
|                                                         |           |                                                |         |
| - Choice TDD Option                                     |           | 1.28 Mcps TDD                                  |         |
| - TSTD indicator                                        |           | FALSE                                          |         |
| - Cell parameters ID                                    |           | Ref. to the Default setting in TS34.108 clause |         |
|                                                         |           | 6.1 (TDD) Integer(0127)                        |         |
| - SCTD indicator                                        |           | FALSE                                          |         |
| - Downlink DPCH info for each RL                        |           | Not Present                                    |         |
| - SCCPCH Information for FACH                           |           | Not Present                                    | Ì       |
| - SCCPCH IIIIOIIIIalioii ioi FACH                       |           | Not i lesent                                   |         |

| Condition | Explanation                                                |  |
|-----------|------------------------------------------------------------|--|
| A1        | This IE need for "Non speech in CS"                        |  |
| A2        | This IE need for "Speech in CS"                            |  |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"  |  |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS" |  |

| Ī | A5 | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
|---|----|-------------------------------------------------------------|
|   | A6 | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

#### Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                | Value/remark                                                | Version |
|----------------------------------------------------|-------------------------------------------------------------|---------|
| Message Type                                       |                                                             |         |
| RRC transaction identifier                         | Checked to see if it's set to identical value of the same   |         |
|                                                    | IE in the downlink PHYSICAL CHANNEL                         |         |
|                                                    | RECONFIGURATION message                                     |         |
| Integrity check info                               |                                                             |         |
| <ul> <li>Message authentication code</li> </ul>    | This IE is checked to see if it is present. The value is    |         |
|                                                    | compared against the XMAC-I value computed by SS.           |         |
|                                                    | The first/ leftmost bit of the bit string contains the most |         |
|                                                    | significant bit of the MAC-I.                               |         |
| <ul> <li>RRC Message sequence number</li> </ul>    | This IE is checked to see if it is present. The value is    |         |
|                                                    | used by SS to compute the XMAC-I value.                     |         |
| Uplink integrity protection activation info        | Not checked                                                 |         |
| CHOICE mode                                        | TDD                                                         |         |
| CHOICE TDD option                                  | 1.28 Mcps TDD                                               | REL-4   |
| COUNT-C activation time                            | Not checked                                                 |         |
| Radio bearer uplink ciphering activation time info | Not checked                                                 |         |
| Uplink counter synchronisation info                | Not checked                                                 |         |

#### Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identitifer   | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.                                                                              |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

#### Contents of RADIO BEARER RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element            | Condition             | Value/remark                                                                                                                                                       | Version |
|--------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                   | A1,A2,A3,<br>A4,A5,A6 |                                                                                                                                                                    |         |
| UE Information elements        |                       |                                                                                                                                                                    |         |
| RRC transaction identifier     |                       | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         |
| Integrity check info           |                       |                                                                                                                                                                    |         |
| - message authentication code  |                       | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC message sequence number  |                       | SS provides the value of this IE, from its internal counter.                                                                                                       |         |
| Integrity protection mode info |                       | Not Present                                                                                                                                                        |         |
| Ciphering mode info            |                       | Not Present                                                                                                                                                        |         |
| Activation time                | A1,A2,A3              | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         |
| Activation time                | A4, A5,A6             | Not Present                                                                                                                                                        |         |
|                                |                       | MD Integer(0255) default is "now'                                                                                                                                  |         |
| New U-RNTI                     |                       | Not Present                                                                                                                                                        |         |
| New C-RNTI                     | A1, A2, A3,           | Not Present                                                                                                                                                        |         |

| Information Element                                   | Condition   | Value/remark                                                | Version |
|-------------------------------------------------------|-------------|-------------------------------------------------------------|---------|
| miorination Lightent                                  | A4,         | Talac/Tollial K                                             | 701011  |
| New C-RNTI                                            | A5, A6      | '1010 1010 1010 1010'                                       |         |
| New DSCH-RNTI                                         | A1, A2, A3, | Not Present                                                 |         |
| Now Booth Killin                                      | A4, A5, A6  | THOU TOOOTH                                                 |         |
| New H-RNTI                                            | A1, A2, A3, | Not Present                                                 | REL-5   |
|                                                       | A4, A5, A6  |                                                             |         |
| RRC State indicator                                   | A1, A2, A3, | CELL_DCH                                                    |         |
|                                                       | A4 , , , ,  | Indicates to a UE the RRC state to be                       |         |
|                                                       |             | entered.                                                    |         |
| RRC State indicator                                   | A5, A6      | CELL_FACH                                                   |         |
| UTRAN DRX cycle length coefficient                    | A1,A2,A3,   | Not Present                                                 |         |
|                                                       | A4,A5,A6    | A coefficient in the formula to count the                   |         |
|                                                       |             | paging occasions to be used by a                            |         |
|                                                       |             | specific UE                                                 |         |
| CN information elements                               |             |                                                             |         |
| CN information info                                   |             | Not Present                                                 |         |
| UTRAN mobility information elements                   |             | Not Decemb                                                  |         |
| URA identity                                          |             | Not Present                                                 | ם בו    |
| CHOICE specification mode  RB information elements    |             | [FFS]                                                       | REL-5   |
|                                                       |             | Not Droppet                                                 |         |
| RAB information to reconfigure list                   | Λ1          | Not Present                                                 |         |
| RB information to reconfigure list                    | A1          | TS25.331 specifies that "Although this                      |         |
|                                                       |             | IE is not always required, need is MP to align with ASN.1". |         |
| - RB information to reconfigure                       |             | (UM DCCH for RRC)                                           |         |
| - RB identity                                         |             |                                                             |         |
| - PDCP info                                           |             | Not Present                                                 |         |
| - PDCP SN info                                        |             | Not Present                                                 |         |
| - RLC info                                            |             | Not Present                                                 |         |
| - RB mapping info                                     |             | Not Present                                                 |         |
| - RB stop/continue                                    |             | Not Present                                                 |         |
| - RB information to reconfigure                       |             | (AM DCCH for RRC)                                           |         |
| - RB identity                                         |             | 2                                                           |         |
| - PDCP info                                           |             | Not Present                                                 |         |
| - PDCP SN info                                        |             | Not Present                                                 |         |
| - RLC info                                            |             | Not Present                                                 |         |
| - RB mapping info                                     |             | Not Present                                                 |         |
| - RB stop/continue                                    |             | Not Present                                                 |         |
| - RB information to reconfigure                       |             | (AM DCCH for NAS_DT High priority)                          |         |
| - RB identity                                         |             | 3                                                           |         |
| - PDCP info                                           |             | Not Present                                                 |         |
| - PDCP SN info                                        |             | Not Present                                                 |         |
| - RLC info                                            |             | Not Present                                                 |         |
| - RB mapping info                                     |             | Not Present                                                 |         |
| - RB stop/continue<br>- RB information to reconfigure |             | Not Present (AM DCCH for NAS_DT Low priority)               |         |
| - RB information to reconligure - RB identity         |             | (AN DOOT TO MAS_DT LOW PROFITS)                             |         |
| - PDCP info                                           |             | Not Present                                                 |         |
| - PDCP SN info                                        |             | Not Present                                                 |         |
| - RLC info                                            |             | Not Present                                                 |         |
| - RB mapping info                                     |             | Not Present                                                 |         |
| - RB stop/continue                                    |             | Not Present                                                 |         |
| - RB information to reconfigure                       |             | (TM DTCH)                                                   |         |
| - RB identity                                         |             | 10                                                          |         |
| - PDCP info                                           |             | Not Present                                                 |         |
| - PDCP SN info                                        |             | Not Present                                                 |         |
| - RLC info                                            |             | Not Present                                                 |         |
| - RB mapping info                                     |             | Not Present                                                 |         |
| - RB stop/continue                                    |             | Not Present                                                 |         |
| RB information to reconfigure list                    | A2          | TS25.331 specifies that "Although this                      |         |
|                                                       |             | IE is not always required, need is MP to                    |         |
|                                                       |             | align with ASN.1".                                          |         |
| - RB information to reconfigure                       |             | (UM DCCH for RRC)                                           |         |
| - RB identity                                         |             | 1                                                           |         |
| - PDCP info                                           |             | Not Present                                                 |         |
| - PDCP SN info                                        |             | Not Present                                                 |         |
| - RLC info                                            |             | Not Present                                                 |         |

| R8 mapping info R8 stop/confinue - R8 information to reconfigure - R8 identity - PDCP SN info - PDCP SN info - R8 stop/confinue - R8 information to reconfigure  Information Element                | Condition | Value/remark                         | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|--------------------------------------|---------|
| - RB information to reconfigure - RB identity - PDCP SN info - RLC info - RB stop/continue - RB information to reconfigure - R |                                    |           |                                      |         |
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| PDCP info PDCP SN Info RLC info RB mapping info RB stop/confinue RB information to reconfigure R | •                                  |           |                                      |         |
| - PDCP SN info - RLC Info - RB mapping info - RB stop/continue - RB information to reconfigure |                                    |           |                                      |         |
| - RLC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |           |                                      |         |
| R8 mapping info R8 stop/continue R8 information to reconfigure R8  |                                    |           |                                      |         |
| - RB stop/continue - RB information to reconfigure - RB inform |                                    |           |                                      |         |
| RB information to reconfigure RB identity PDCP info PDCP SN info RC info RC mapping info RB stop/continue RB information to reconfigure RB information to re |                                    |           |                                      |         |
| - RB identity - PDCP info - RC Linfo - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to  |                                    |           |                                      |         |
| - PDCP info - PDCP SN info - RLC info - RB appling info - RB appling info - RB stop/continue - RB information to reconfigure - | 1                                  |           | (AM DCCH for NAS_DT High priority)   |         |
| - PDCP SN info - RE mapping info - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to reco |                                    |           |                                      |         |
| - RLC info - RB stop/continue - RB information to reconfigure  |                                    |           |                                      |         |
| - RB mapping into - RB istop/continue - RB information to reconfigure - RB identity - PDCP SN info - PDCP SN info - RB mapping info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RD mapping info - RB mapping info - RB mapping info - RB mapping info - RB information to reconfigure - RB information |                                    |           |                                      |         |
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| RB stop/continue RB information to reconfigure RB information to r |                                    |           |                                      |         |
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| - RB identity - PDCP SN info - PDCP SN info - RB mapping info - RB stop/continue  - RB information to reconfigure - RB mapping info - RB mapping info - RB mapping info - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB stop/continue - RB stop/continue - RB information to reconfigure - RB information | _                                  |           | (This IE is needed for 12.2 kbps and |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB identity - PDCP SN info - RB mapping info - RB mapping info - RB mapping info - RB mapping info - RB mapping info - RB mapping info - RLC info - RB information to reconfigure - RB identity - PDCP SN info - RB stop/continue - RB information to reconfigure - RB stop/continue - RB mapping info - RCC info - RCC info - RCC info - RCC info - RCC info - RCC info - RCC info - RCC info - R |                                    |           | 10.2 kbps)                           |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB identity - PDCP SN info - RB mapping info - RB stop/continue  - RB mapping info - RB mapping info - RLC info - RB information to reconfigure - RB information to reconfigure - RB mapping info - RB stop/continue - RB information to reconfigure - RB mapping info - RLC info - RLC info - RB mapping info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB mapping info - RLC info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - Not Present | - RB identity                      |           |                                      |         |
| - RLC info - RB mapping info - RB stop/continue  RB information to reconfigure list  - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - RB mapping info - RB mapping info - RB information to reconfigure - RB information to reconfigure - RB stop/continue - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RLC info - RB mapping info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |           | Not Present                          |         |
| - RB mapping info - RB stop/continue  RB information to reconfigure list  A3,A4,A5, A6  RB information to reconfigure list  - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB stop/continue - RB stop/continue - RB stop/continue - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present - Not Present                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |                                      |         |
| RB information to reconfigure list  A3,A4,A5, A6  RB information to reconfigure list  A3,A4,A5, A6  RB information to reconfigure  - RB information to reconfigure  - RB identity  - PDCP info  - PDCP SN info  - RLC info  - RB stop/continue  - RB information to reconfigure  - RB identity  - PDCP info  - RB stop/continue  - RB information to reconfigure  - RB identity  - PDCP info  - RB identity  - PDCP SN info  - RB configure  - RB information to reconfigure  - RB information to reconfigure  - RB information to reconfigure  - RB stop/continue  - RB mapping info  - RB stop/continue  - RB information to reconfigure  - RB in |                                    |           |                                      |         |
| RB information to reconfigure list  A3,A4,A5, A6  RB information to reconfigure  - RB information to reconfigure  - RB identity  - PDCP info  - PDCP SN info  - RLC info  - RB stop/continue  - RB identity  - PDCP SN info  - RB mapping info  - RB clentity  - PDCP sn info  - RB information to reconfigure  - RB information to reconfigure  - RB stop/continue  - RB stop/continue  - RB stop/continue  - RB information to reconfigure  - RB identity  - PDCP info  - RB conformation to reconfigure  - RB identity  - RB right make is information to reconfigure  - RB identity  - RB identity  - RB identity  - RB right make is information to reconfigure  - RB identity  - RB identity  - RB right make is information to reconfigure  - RB identity  - RB right make is information to reconfigure  - RB identity  - RB right make is information to reconfigure  - RB right make is not always required, need is MP to align mich as information to reconfigure  - RB right make is not always required, need is MP to align mich as information to reconfigure  - RB right make is not always required, need is MP to align mich as information to reconfigure  - RB right make is not always required, need is MP to align mich as information to align with ASN.1"  - (UM DCCH for RRC)  - Not Present  - Not Present  Not Present  - Not Present  - RB right make is not always required, need is MP to align mich as information to align with ASN.1  - Not Present  - RB right make is not always required, need is MP to align mich as information to align with ASN.1  - Not Present  - RB right make is not always required.  - RB right make is not always required.  -  |                                    |           |                                      |         |
| A6  IE is not always required, need is MP to align with ASN.1".  (UM DCCH for RRC)  1  Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |           |                                      |         |
| align with ASN.1".  - RB information to reconfigure  - RB identity  - PDCP info  - PDCP SN info  - RLC info  - RB stop/continue  - RB information to reconfigure  - RB identity  - PDCP SN info  - RB configure  - RB identity  - PDCP SN info  - RLC info  - RB mapping info  - RLC info  - RB mapping info  - RB stop/continue  - RB information to reconfigure  - RB information to reconfigure  - RB information  - RLC info  - RB mapping info  - RB stop/continue  - RB stop/continue  - RB information to reconfigure  - RB information to reconfigure  - RB identity  - RB identity  - RB identity  - RB identity  - RB rapping info  - RB identity  | RB information to reconfigure list |           |                                      |         |
| - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - PDCP SN info - RLC info - RB identity - PDCP info - RLC info - RB stop/continue - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    | A6        |                                      |         |
| - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - RLC info - RB mapping info - RLC info - RB stop/continue - RB information to reconfigure - RB stop/continue - RB stop/continue - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info  1  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DD information to reconfigure      |           |                                      |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB identity - PDCP SN info - RLC info - RB mapping info - RB identity - PDCP SN info - RLC info - RB mapping info - RLC info - RB stop/continue - RB stop/continue - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - RB identity - PDCP info - RDCP SN info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - Not Present - Not Pre | •                                  |           | · ·                                  |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP SN info - PDCP SN info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB stop/continue - RB information to reconfigure - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |                                      |         |
| - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB stop/continue - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |           |                                      |         |
| - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |                                      |         |
| - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - PLC info - RB mapping info - RB stop/continue - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |           |                                      |         |
| - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - PLC info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  (AM DCCH for RRC) 2 Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |                                      |         |
| - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  - RB identity - PDCP info  2  Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |           |                                      |         |
| - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                                  |           |                                      |         |
| - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |           |                                      |         |
| - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |                                      |         |
| - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |           |                                      |         |
| - RB stop/continue - RB information to reconfigure - RB identity - PDCP info  Not Present (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - RB mapping info                  |           | Not Present                          |         |
| - RB information to reconfigure - RB identity - PDCP info  (AM DCCH for NAS_DT High priority) 3 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - RB stop/continue                 |           |                                      |         |
| - PDCP info Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |           | (AM DCCH for NAS_DT High priority)   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |                                      |         |
| - PDCP SN into Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |           |                                      |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - PDCP SN Into                     | I         | Not Present                          |         |

| Information Element                                | Condition | Value/remark                                                              | Version |
|----------------------------------------------------|-----------|---------------------------------------------------------------------------|---------|
| - RLC info                                         |           | Not Present                                                               |         |
| - RB mapping info                                  |           | Not Present                                                               |         |
| - RB stop/continue                                 |           | Not Present                                                               |         |
| - RB information to reconfigure                    |           | (AM DCCH for NAS_DT Low priority)                                         |         |
| - RB identity                                      |           | 4                                                                         |         |
| - PDCP info                                        |           | Not Present                                                               |         |
| - PDCP SN info                                     |           | Not Present                                                               |         |
| - RLC info                                         |           | Not Present                                                               |         |
| - RB mapping info                                  |           | Not Present                                                               |         |
| - RB stop/continue                                 |           | Not Present                                                               |         |
| - RB stop/continue - RB information to reconfigure |           |                                                                           |         |
|                                                    |           | (AM DTCH)                                                                 |         |
| - RB identity                                      |           | 20<br>Not Procent                                                         |         |
| - PDCP info                                        |           | Not Present                                                               |         |
| - PDCP SN info                                     |           | Not Present                                                               |         |
| - RLC info                                         |           | Not Present                                                               |         |
| - RB mapping info                                  |           | Not Present                                                               |         |
| - RB stop/continue                                 |           | Not Present                                                               |         |
| RB information to be affected                      | A1, A2,   | Not Present                                                               |         |
|                                                    | A3,A4,A5, |                                                                           |         |
| TOUL ( STORY )                                     | A6        |                                                                           |         |
| TrCH Information Elements                          |           |                                                                           |         |
| Uplink transport channels                          |           |                                                                           |         |
| UL Transport channel information for all transport | A1, A2,   | Not Present                                                               |         |
| channels                                           | A5,A6     |                                                                           |         |
|                                                    | ·         |                                                                           |         |
|                                                    |           |                                                                           |         |
| UL Transport channel information for all transport | A3, A4    |                                                                           |         |
| channels                                           |           |                                                                           |         |
| - PRACH TFCS                                       |           | Not Present                                                               |         |
| - CHOICE mode                                      |           | TDD                                                                       |         |
| - Individual UL CCTrCH information                 |           |                                                                           |         |
| - UL TFCS Identity                                 |           |                                                                           |         |
| - TFCS ID                                          |           | 1                                                                         |         |
| <ul> <li>Shared Channel Indicator</li> </ul>       |           | FALSE                                                                     |         |
| - UL TFCS                                          |           |                                                                           |         |
| - CHOICE TFCI signalling                           |           | Normal                                                                    |         |
|                                                    |           | (another option 'split' only for FDD)                                     |         |
| - TFCI Field 1 Information                         |           |                                                                           |         |
| - CHOICE TFCS representation                       |           | Complete reconfiguration                                                  |         |
| - TFCS complete reconfiguration                    |           | Complete recorning a ration                                               |         |
| information                                        |           |                                                                           |         |
| - CHOICE CTFC Size                                 |           | Number of hits used must be enough to                                     |         |
| - CHOICE CIPC Size                                 |           | Number of bits used must be enough to cover all combinations of CTFC from |         |
|                                                    |           | TS34.108 clause 6.11.5.4 Parameter                                        |         |
|                                                    |           |                                                                           |         |
| OTEO information                                   |           | Set.                                                                      |         |
| - CTFC information                                 |           | This IE is repeated for TFC numbers                                       |         |
|                                                    |           | and reference to TS34.108 clause                                          |         |
| OTEC                                               |           | 6.11.5.4 Parameter Set                                                    |         |
| - CTFC                                             |           | Reference to TS34.108 clause 6.11.5.4                                     |         |
|                                                    |           | Parameter Set                                                             |         |
| - Power offset information                         |           |                                                                           |         |
| - CHOICE Gain Factors                              |           | Computed Gain Factors                                                     |         |
|                                                    |           | (The last TFC is set to Signalled Gain                                    |         |
|                                                    |           | Factors)                                                                  |         |
| - Reference TFC ID                                 |           | 0 Integer(0 3)                                                            |         |
| - CHOICE Gain Factors                              |           | Signalled Gain Factors                                                    |         |
|                                                    |           | (Not Present if the CHOICE Gain                                           |         |
|                                                    |           | Factors is set to ComputedGain                                            |         |
|                                                    |           | Factors)                                                                  |         |
| - CHOICE mode                                      |           | TDD                                                                       |         |
| - Gain Factor $eta_d$                              |           | 15                                                                        |         |
| - Reference TFC ID                                 |           | 0 Integer(0 3)                                                            |         |
| - CHOICE mode                                      |           | TDD                                                                       |         |
| - TFC subset                                       |           |                                                                           |         |
| - CHOICE Subset representation                     | 1         | Minimum allowed Transport format                                          |         |
| C. TOTOL GUDGOT TOPTOGOTILUTION                    |           |                                                                           | İ       |

| Information Element                                                                              | Condition        | Value/remark                                                    | Version |
|--------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------|---------|
|                                                                                                  |                  | combination index                                               |         |
| <ul> <li>Allowed transport format combination<br/>list</li> </ul>                                |                  | Not present                                                     |         |
| <ul> <li>Non-allowed transport format<br/>combination list</li> </ul>                            |                  | Not present                                                     |         |
| Non-allowed transport format combination list                                                    |                  | Not present                                                     |         |
| - Full transport format combination set                                                          |                  | Not present                                                     |         |
| - TFC subset list                                                                                |                  | Not present                                                     |         |
| Deleted TrCH information list                                                                    |                  | Not present                                                     |         |
| Deleted UL TrCH information                                                                      | A1, A2, A3,      | Not Present                                                     |         |
|                                                                                                  | A4, A5,A6        |                                                                 |         |
| Added or Reconfigured TrCH information list                                                      |                  |                                                                 |         |
| Added or Reconfigured UL TrCH information                                                        | A1, A2,<br>A5,A6 | Not Present                                                     |         |
| Added or Reconfigured UL TrCH information                                                        | A4               | 2 TrCHs(DCH for DCCH and DCH for DTCH)                          |         |
| <ul> <li>Uplink transport channel type</li> </ul>                                                |                  | DCH '                                                           |         |
| <ul> <li>- UL Transport channel identity</li> <li>- TFS</li> </ul>                               |                  | 5                                                               |         |
| - CHOICE Transport channel type                                                                  |                  | Dedicated transport channels                                    |         |
| - Dynamic Transport format information                                                           |                  |                                                                 |         |
| - RLC Size                                                                                       |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| - Number of TBs and TTI List                                                                     |                  | (This IE is repeated for TFI number.)                           |         |
| - Transmission Time Interval                                                                     |                  | Not Present                                                     |         |
| - Number of Transport blocks                                                                     |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| - CHOICE Logical Channel list                                                                    |                  | All                                                             |         |
| - Semi-static Transport Format information                                                       |                  |                                                                 |         |
| - Transmission time interval                                                                     |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| - Type of channel coding                                                                         |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| - Coding Rate                                                                                    |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| - Rate matching attribute                                                                        |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| - CRC size                                                                                       |                  | Reference to TS34.108 clause 6.11.5 Parameter Set               |         |
| <ul> <li>Uplink transport channel type</li> </ul>                                                |                  | DCH                                                             |         |
| - UL Transport channel identity                                                                  |                  | 1                                                               |         |
| - TFS                                                                                            |                  | Dedicated transport shappels                                    |         |
| <ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>  |                  | Dedicated transport channels                                    |         |
| - RLC Size                                                                                       |                  | Reference to TS34.108 clause 6.11.5                             |         |
|                                                                                                  |                  | Parameter Set                                                   |         |
| - Number of TBs and TTI List                                                                     |                  | (This IE is repeated for TFI number.)                           |         |
| <ul> <li>Transmission Time Interval</li> <li>Number of Transport blocks</li> </ul>               |                  | Not Present<br>Reference to TS34.108 clause 6.11.5              |         |
| ·                                                                                                |                  | Parameter Set                                                   |         |
| - CHOICE Logical Channel list                                                                    |                  | All                                                             |         |
| <ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul> |                  | Reference to TS34.108 clause 6.11.5                             |         |
| - Type of channel coding                                                                         |                  | Parameter Set Reference to TS34.108 clause 6.11.5               |         |
| - Coding Rate                                                                                    |                  | Parameter Set Reference to TS34.108 clause 6.11.5 Parameter Set |         |
| - Rate matching attribute                                                                        |                  | Reference to TS34.108 clause 6.11.5                             |         |
| - CRC size                                                                                       |                  | Parameter Set Reference to TS34.108 clause 6.11.5 Parameter Set |         |
| Added or Reconfigured UL TrCH information - Uplink transport channel type                        | A3               | (DCH for DTCH)<br>DCH                                           |         |
| UL Transport channel identity                                                                    |                  | DCH<br>  1                                                      |         |
| - TFS                                                                                            |                  | '                                                               | 1       |

| Information Flowant                                                                  | Condition         | Value/rements                           | Varaian |
|--------------------------------------------------------------------------------------|-------------------|-----------------------------------------|---------|
| Information Element                                                                  | Condition         | Value/remark                            | Version |
| - CHOICE Transport channel type     - Dynamic Transport format information           |                   | Dedicated transport channels            |         |
| - RLC Size                                                                           |                   | Reference to TS34.108 clause 6.11.5     |         |
| - INEO OIZE                                                                          |                   | Parameter Set                           |         |
| - Number of TBs and TTI List                                                         |                   | (This IE is repeated for TFI number.)   |         |
| - Transmission Time Interval                                                         |                   | Not Present                             |         |
| - Number of Transport blocks                                                         |                   | Reference to TS34.108 clause 6.11.5     |         |
|                                                                                      |                   | Parameter Set                           |         |
| - CHOICE Logical Channel list                                                        |                   | All                                     |         |
| - Semi-static Transport Format information                                           |                   |                                         |         |
| - Transmission time interval                                                         |                   | Reference to TS34.108 clause 6.11.5     |         |
|                                                                                      |                   | Parameter Set                           |         |
| - Type of channel coding                                                             |                   | Reference to TS34.108 clause 6.11.5     |         |
|                                                                                      |                   | Parameter Set                           |         |
| - Coding Rate                                                                        |                   | Reference to TS34.108 clause 6.11.5     |         |
| <b>-</b>                                                                             |                   | Parameter Set                           |         |
| - Rate matching attribute                                                            |                   | Reference to TS34.108 clause 6.11.5     |         |
| ODC size                                                                             |                   | Parameter Set                           |         |
| - CRC size                                                                           |                   | Reference to TS34.108 clause 6.11.5     |         |
| CHOICE mode                                                                          | A4 A0 A0          | Parameter Set                           |         |
| CHOICE Mode                                                                          | A1,A2,A3,         | TDD                                     |         |
| - (no data)                                                                          | A4,A5,A6          |                                         |         |
| Downlink transport channels                                                          | 1                 |                                         | +       |
| DL Transport channel information common for all                                      | A1, A2, A5,       | Not Present                             | +       |
| transport channel                                                                    | A6                | Not resent                              |         |
| DL Transport channel information common for all                                      | A3,A4             |                                         |         |
| transport channel                                                                    | 7.0,711           |                                         |         |
| - SCCPCH TFCS                                                                        |                   | Not Present                             |         |
| - CHOICE mode                                                                        |                   | TDD                                     |         |
| - Individual DL CCTrCH information                                                   |                   |                                         |         |
| - DL TFCS Identity                                                                   |                   |                                         |         |
| - TFCS ID                                                                            |                   |                                         |         |
| - Shared Channel Indicator                                                           |                   |                                         |         |
| - CHOICE DL parameters                                                               |                   | Independent                             |         |
| - DL TFCS                                                                            |                   |                                         |         |
| <ul> <li>CHOICE TFCI signalling</li> </ul>                                           |                   | Normal                                  |         |
|                                                                                      |                   | (Normal' : meaning no split in the TFCI |         |
| - TFCI Field 1 Information                                                           |                   | field either 'Logical' or 'Hard')       |         |
| - CHOICE TFCS representation                                                         |                   | Complete reconfiguration                |         |
| - TFCS complete reconfiguration                                                      |                   | Complete reconliguration                | +       |
| information                                                                          |                   |                                         |         |
| - CHOICE CTFC Size                                                                   |                   | Number of bits used must be enough to   |         |
| 3.10102 011 0 0120                                                                   |                   | cover all combinations of CTFC from     |         |
|                                                                                      |                   | clause TS34.108 clause 6.11.5.4         |         |
|                                                                                      |                   | Parameter Set.                          |         |
| - CTFC information                                                                   |                   | This IE is repeated for TFC numbers     |         |
|                                                                                      |                   | and reference to TS34.108 clause        |         |
|                                                                                      |                   | 6.11.5.4                                |         |
| - CTFC                                                                               |                   | Reference to TS34.108 clause 6.11.5.4   |         |
|                                                                                      |                   | Parameter Set                           |         |
| - Power offset                                                                       |                   | Not Present                             |         |
| information                                                                          | -                 |                                         | +       |
| Deleted TrCH information list                                                        | A4 A0 A0          | Not Propert                             | 1       |
| Deleted DL TrCH information                                                          | A1, A2, A3,       | Not Present                             |         |
| Added or Reconfigured TrCH information list                                          | A4, A5,A6         |                                         | +       |
| Added or Reconfigured DL TrCH information  Added or Reconfigured DL TrCH information | A1, A2, A5,       | Not Present                             | +       |
| Added of Neconinguled DE HOLLINIOHIIANOH                                             | A1, A2, A3,<br>A6 | Not i leadif                            |         |
| Added or Reconfigured DL TrCH information                                            | A4                | 2 TrCHs(DCH for DCCH and DCH for        | +       |
| / Adda of Neconinguiou DE HOITillioilliation                                         | ' \¬              | DTCH)                                   |         |
| - Downlink transport channel type                                                    |                   | DCH                                     |         |
| - DL Transport channel identity                                                      |                   | 10                                      |         |
| - CHOICE DL parameters                                                               |                   | Same as UL                              |         |
| - Uplink transport channel type                                                      |                   | DCH                                     |         |
| - UL TrCH identity                                                                   |                   | 5                                       |         |

| Information Element                                                 | Condition | Value/remark                                        | Version |
|---------------------------------------------------------------------|-----------|-----------------------------------------------------|---------|
| - DCH quality target                                                |           |                                                     |         |
| - BLER Quality value                                                |           | Not Present                                         |         |
| <ul> <li>Downlink transport channel type</li> </ul>                 |           | DCH                                                 |         |
| - DL Transport channel identity                                     |           | 6                                                   |         |
| - CHOICE DL parameters                                              |           | Explicit                                            |         |
| - TFS                                                               |           |                                                     |         |
| - CHOICE Transport channel type                                     |           | Dedicated transport channel                         |         |
| - Dynamic transport format information                              |           | D-f                                                 |         |
| - RLC Size                                                          |           | Reference to TS34.108 clause 6.11.5                 |         |
| Number of TDe and TTLL:-4                                           |           | Parameter Set                                       |         |
| Number of TBs and TTI List     Dynamic transport format information |           | (This IE is repeated for TFI number.)               |         |
| - Dynamic transport format information - Transmission Time Interval |           | Not Present                                         |         |
| - Number of Transport blocks                                        |           | Reference to TS34.108 clause 6.11.5                 |         |
| - Number of Transport blocks                                        |           | Parameter Set                                       |         |
| - Semi-static Transport Format information                          |           | i diameter det                                      |         |
| - Transmission time interval                                        |           | Reference to TS34.108 clause 6.11.5                 |         |
| Transmission and more                                               |           | Parameter Set                                       |         |
| - Type of channel coding                                            |           | Reference to TS34.108 clause 6.11.5                 |         |
| - ) [                                                               |           | Parameter Set                                       |         |
| - Coding Rate                                                       |           | Reference to TS34.108 clause 6.11.5                 |         |
| Ŭ                                                                   |           | Parameter Set                                       |         |
| - Rate matching attribute                                           |           | Reference to TS34.108 clause 6.11.5                 |         |
|                                                                     |           | Parameter Set                                       |         |
| - CRC size                                                          |           | Reference to TS34.108 clause 6.11.5                 |         |
|                                                                     |           | Parameter Set                                       |         |
| - DCH quality target                                                |           |                                                     |         |
| - BLER Quality value                                                |           | -2.0                                                |         |
| Added or Reconfigured DL TrCH information                           | A3        |                                                     |         |
| - Downlink transport channel type                                   |           | DCH                                                 |         |
| - DL Transport channel identity                                     |           | 6                                                   |         |
| - CHOICE DL parameters                                              |           | Explicit                                            |         |
| - TFS                                                               |           | Dadiastadas d                                       |         |
| - CHOICE Transport channel type                                     |           | Dedicated transport channel                         |         |
| - Dynamic transport format information                              |           | Deference to TCC4 400 slaves 0.44.5                 |         |
| - RLC Size                                                          |           | Reference to TS34.108 clause 6.11.5                 |         |
| - Number of TRs and TTI List                                        |           | Parameter Set (This IE is repeated for TEL number.) |         |
| Number of TBs and TTI List     Dynamic transport format information |           | (This IE is repeated for TFI number.)               |         |
| - Dynamic transport format information - Transmission Time Interval |           | Not Present                                         |         |
| - Number of Transport blocks                                        |           | Reference to TS34.108 clause 6.11.5                 |         |
| Hamber of Hamport blocks                                            |           | Parameter Set                                       |         |
| - Semi-static Transport Format information                          |           | - Gramotor Cot                                      |         |
| - Transmission time interval                                        |           | Reference to TS34.108 clause 6.11.5                 |         |
| Transmission and anti-                                              |           | Parameter Set                                       |         |
| - Type of channel coding                                            |           | Reference to TS34.108 clause 6.11.5                 |         |
| · /F                                                                |           | Parameter Set                                       |         |
| - Coding Rate                                                       |           | Reference to TS34.108 clause 6.11.5                 |         |
| Ŭ                                                                   |           | Parameter Set                                       |         |
| - Rate matching attribute                                           |           | Reference to TS34.108 clause 6.11.5                 |         |
| ·                                                                   |           | Parameter Set                                       |         |
| - CRC size                                                          |           | Reference to TS34.108 clause 6.11.5                 |         |
|                                                                     |           | Parameter Set                                       |         |
| - DCH quality target                                                |           |                                                     |         |
| - BLER Quality value                                                |           | -2.0                                                |         |
| Preconfiguration                                                    | A1,A2,A3, | [FFS]                                               | REL-5   |
|                                                                     | A4,A5,A6  |                                                     |         |
| PhyCH information elements                                          |           |                                                     |         |
| Frequency info                                                      | A1,A2,A3, |                                                     |         |
| 0110105                                                             | A4,A5     |                                                     |         |
| - CHOICE mode                                                       |           | TDD                                                 |         |
| - UARFCN (Nt)                                                       |           | Reference to clause 5.1 Test                        |         |
| For more assists                                                    | 100       | frequencies                                         |         |
| Frequency info                                                      | A6        | Not Present                                         | 1       |
| Uplink radio resources                                              | A4 A0 A0  | OO JD                                               |         |
| Maximum allowed UL TX power                                         | A1,A2,A3, | 33dBm                                               |         |
|                                                                     | A4,A5,A6  |                                                     |         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition   | Value/remark                                        | Version  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------|----------|
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3, | Uplink DPCH info                                    | Version  |
| OHOIOE charme requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1, A2, A3, | Opinik bi Orrinio                                   |          |
| -Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | / -         |                                                     |          |
| Spining of the second of the s |             |                                                     |          |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | TDD                                                 |          |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | 1.28 Mcps TDD                                       | RE       |
| '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 1                                                   |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                     |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                     |          |
| - PRX <sub>PDPCHdes</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | Integer(-12058 by step of 1)                        |          |
| - CHOICE UL OL PC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | ,                                                   |          |
| - Broadcast UL OL PC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | Null                                                |          |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | TDD                                                 |          |
| - Uplink Timing Advance Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | -55                                                 |          |
| - CHOICE Timing Advance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | Enabled                                             |          |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | 1.28 Mcps TDD                                       |          |
| - Uplink synchronisation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                     |          |
| parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                     |          |
| - Uplink synchronisation step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 1                                                   |          |
| size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                     | <u> </u> |
| - Uplink synchronisation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | 1                                                   |          |
| frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                     |          |
| - Synchronisation parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | Not Present                                         |          |
| - UL CCTrCH List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                     |          |
| - TFCS ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | 1                                                   |          |
| - UL Target SIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Real (-11 20 by step of 0.5dB)                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Reference to TS34.108 Parameter set.                |          |
| - Time info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                     |          |
| - Activation time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | (256+CFN-(CFN MOD 8 + 8))MOD 256                    |          |
| - Duration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | infinite                                            |          |
| - Common timeslot info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                                     |          |
| - 2 <sup>nd</sup> interleaving mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Default value is "Frame"                            |          |
| - TFCI coding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | Reference to TS34.108 clause 6                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter set                                       |          |
| - Puncturing limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Reference to TS34.108 clause 6                      |          |
| Denotition period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Parameter set                                       |          |
| - Repetition period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | 1 ampty                                             |          |
| - Repetition length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | empty                                               |          |
| - Uplink DPCH timeslots and code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | FALOE                                               |          |
| - Dynamic SF usage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | FALSE                                               |          |
| - First individual timeslot info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                     |          |
| - Timeslot number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 4 20 Mars TDD                                       |          |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | 1.28 Mcps TDD                                       |          |
| - Timeslot number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 1                                                   |          |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | TRUE                                                |          |
| - Midamble shift and burst type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | 1 00 14 70 7                                        |          |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | 1.28 Mcps TDD                                       |          |
| - Midamble allocation mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Default midamble                                    |          |
| - Midamble configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | 16                                                  |          |
| - Midamble Shift                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Not Present                                         |          |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | 1.28 Mcps TDD                                       |          |
| - Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | QPSK                                                |          |
| - SS-TPC Symbols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | 1                                                   |          |
| - Additional TPC-SS Sysbols                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                         |          |
| - First timeslot Code List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Repeated (1,2) for each channelisation              |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | code assigned in the slot to                        |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | meet the needs of TS34.108                          |          |
| ale annualization and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | clause 6 Parameter Set.                             |          |
| - channelisation codes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | (SF/ i) where i denotes an unassigned               |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | code matching the SF specified in TS34.108 clause 6 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | Parameter Set.                                      |          |
| - CHOICE more timeslots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | No more timeslots                                   |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1           |                                                     | 1        |

| Information Element                                                                    | Condition                 | Value/remark                                 | Version |
|----------------------------------------------------------------------------------------|---------------------------|----------------------------------------------|---------|
| - UL CCTrCH List to Remove                                                             |                           | Not present                                  |         |
| CHOICE channel requirement                                                             | A5, A6                    | Not Present                                  |         |
| Downlink radio resources                                                               |                           |                                              |         |
| CHOICE Mode                                                                            | A1,A2,A3,<br>A4,A5,A6     | TDD                                          |         |
| - Downlink PDSCH information                                                           |                           | No date                                      |         |
| Downlink HS-PDSCH Information                                                          | A1, A2, A3,<br>A4, A5, A6 | Not Present                                  | REL-5   |
| Downlink information common for all radio links                                        | A5, A6                    | Not Present                                  |         |
| Downlink information common for all radio links - Downlink DPCH info common for all RL | A1, A2, A3                |                                              |         |
| - Timing indicaton                                                                     |                           | Maintain                                     |         |
| - CFN-targetSFN frame offset                                                           |                           | Not Present                                  |         |
| <ul> <li>Downlink DPCH power control information</li> <li>CHOICE mode</li> </ul>       |                           | TDD                                          |         |
| - TPC Step Size                                                                        |                           | 1                                            |         |
| - MAC-d HFN initial value                                                              |                           | Not Present                                  |         |
| - CHOICE mode                                                                          |                           | TDD                                          |         |
| - CHOICE mode                                                                          |                           | TDD                                          |         |
| - CHOICE TDD option                                                                    |                           | 1.28 Mcps TDD                                |         |
| <ul> <li>TSTD indicator</li> <li>Default DPCH Offset Value</li> </ul>                  |                           | FALSE<br>Not Present                         |         |
| Downlink information common for all radio links                                        | A4                        | Not Flesent                                  |         |
| - Downlink DPCH info common for all RL                                                 | 7.4                       |                                              |         |
| - Timing indication                                                                    |                           | Initialise                                   |         |
| - CFN-targetSFN frame offset                                                           |                           | Not Present                                  |         |
| - Downlink DPCH power control information                                              |                           |                                              |         |
| - CHOICE mode                                                                          |                           | TDD                                          |         |
| - TPC Step Size<br>- MAC-d HFN initial value                                           |                           | 1<br>Not Present                             |         |
| - MAC-d HFN Illitial Value - CHOICE mode                                               |                           | TDD                                          |         |
| - CHOICE mode                                                                          |                           | TDD                                          |         |
| - CHOICE TDD option                                                                    |                           | 1.28 Mcps TDD                                |         |
| - TSTD indicator                                                                       |                           | FALSE                                        |         |
| - Default DPCH Offset Value                                                            |                           |                                              |         |
| - CHOICE mode                                                                          |                           | TDD                                          |         |
| - Default DPCH Offset Value                                                            | A4 A2 A2                  | 0                                            |         |
| Downlink information per radio link list                                               | A1, A2, A3,<br>A4         |                                              |         |
| <ul> <li>Downlink information for each radio link</li> </ul>                           |                           |                                              |         |
| - Choice mode                                                                          |                           | TDD                                          |         |
| - Primary CCPCH info                                                                   |                           | TDD                                          |         |
| - Choice mode<br>- Choice TDD Option                                                   |                           | TDD                                          |         |
| - TSTD indicator                                                                       |                           | 1.28 Mcps TDD<br>FALSE                       |         |
| - Cell parameters ID                                                                   |                           | Reference clause 6.1.4 Default settings      |         |
| , ,                                                                                    |                           | for cell 1                                   |         |
| - SCTD indicator                                                                       |                           | FALSE                                        |         |
| - Downlink DPCH info for each RL                                                       |                           |                                              |         |
| - CHOICE mode                                                                          |                           | TDD                                          |         |
| - DL CCTrCh List                                                                       | Inda /4 C                 | Identify of this COT-OF D. ( );              |         |
| - TFCS ID                                                                              | Integer(1.8               | Identity of this CCTrCh.Default value is     |         |
| - Time info                                                                            | ,                         | '                                            |         |
| - Activation time                                                                      |                           | Now                                          |         |
| - Duration                                                                             |                           | Infinite                                     |         |
| - Common timeslot info                                                                 |                           |                                              |         |
| - 2 <sup>nd</sup> interleaving mode                                                    |                           | Default value is "Frame"                     |         |
| - TFCI coding                                                                          |                           | Reference to TS34.108 clause 6 Parameter set |         |
| - Puncturing limit                                                                     |                           | Reference to TS34.108 clause 6 Parameter set |         |
| - Repetition period                                                                    |                           | 1                                            |         |
| - Repetition length                                                                    |                           | empty                                        |         |
| - Downlink DPCH timeslots and codes                                                    |                           |                                              |         |
| - First individual timeslot info                                                       |                           |                                              |         |

| Information Element                             | Condition | Value/remark                                                                                                           | Version |
|-------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------|---------|
| - Timeslot number                               |           |                                                                                                                        |         |
| - CHOICE TDD option                             |           | 1.28 Mcps TDD                                                                                                          |         |
| - Timeslot number                               |           | 4 OR 5 OR 6                                                                                                            |         |
| - TFCI existence                                |           | TRUE                                                                                                                   |         |
| - Midamble shift and burst type                 |           |                                                                                                                        |         |
| - CHOICE TDD option                             |           | 1.28 Mcps TDD                                                                                                          |         |
| - Midamble allocation mode                      |           | Default midamble                                                                                                       |         |
| - Midamble configuration                        |           | 16                                                                                                                     |         |
| - Midamble Shift                                |           | Not Present                                                                                                            |         |
| - CHOICE TDD option                             |           | 1.28 Mcps TDD                                                                                                          |         |
| - Modulation                                    |           | QPSK '                                                                                                                 |         |
| - SS-TPC Symbols                                |           | 1                                                                                                                      |         |
| - Additional TPC-SS Sysbols                     |           | Not present                                                                                                            |         |
| - First timeslot channelisation codes           |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |         |
| <ul> <li>CHOICE codes representation</li> </ul> |           |                                                                                                                        |         |
| - Channelisation codes bitmap                   |           | Reference to TS34.108 clause 6.10 Parameter Set                                                                        |         |
| - CHOICE more timeslots                         |           | No more timeslots                                                                                                      |         |
| - UL CCTrCH TPC List                            |           | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                            |         |
| - UL TPC TFCS Identity                          |           | 02.                                                                                                                    |         |
| - TFCS ID                                       |           | 1                                                                                                                      |         |
| - Shared Channel Indicator                      |           | FALSE                                                                                                                  |         |
| - DL CCTrCH List to Remove                      |           | Not present                                                                                                            |         |
| - SCCPCH Information for FACH                   |           | Not Present                                                                                                            |         |
| Downlink information per radio link list        | A5        |                                                                                                                        |         |
| - Downlink information for each radio link      |           |                                                                                                                        |         |
| - Choice mode                                   |           | TDD                                                                                                                    |         |
| - Primary CCPCH info                            |           |                                                                                                                        |         |
| - Choice mode                                   |           | TDD                                                                                                                    |         |
| - Choice TDD Option - TSTD indicator            |           | 1.28 Mcps TDD<br>FALSE                                                                                                 |         |
| - Cell parameters ID                            |           | Reference clause 6.1.4 Default settings for cell 1                                                                     |         |
| - SCTD indicator                                |           | FALSE                                                                                                                  |         |
| - Downlink DPCH info for each RL                |           | Not Present                                                                                                            |         |
| - SCCPCH Information for FACH                   |           | Not Present                                                                                                            |         |
| Downlink information per radio link list        | A6        |                                                                                                                        |         |
| - Downlink information for each radio link      |           | Not Present                                                                                                            |         |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

#### Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element           | Value/remark                                                                                                 | Version |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| Message Type                  |                                                                                                              |         |
| RRC transaction identifier    | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message |         |
| Integrity check info          |                                                                                                              |         |
| - Message authentication code | This IE is checked to see if it is present. The                                                              |         |

| - RRC Message sequence number                      | computed by SS.  The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.  This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |       |  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                                  |       |  |
| CHOICE mode                                        | TDD                                                                                                                                                                                                          |       |  |
| - CHOICE TDD option                                | 1.28 Mcps TDD (No data)                                                                                                                                                                                      | REL-4 |  |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                                  |       |  |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                                  |       |  |
| Uplink counter synchronisation info                | Not checked                                                                                                                                                                                                  |       |  |

## Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

| Information Element                                               | Value/remark                                                                                                                                                                                         |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                      |                                                                                                                                                                                                      |
| RRC transaction identitifer                                       | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.                                                                                  |
| Integrity check info                                              |                                                                                                                                                                                                      |
| - Message authentication code                                     | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                     | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                     | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded List | Not checked                                                                                                                                                                                          |

#### Contents of RADIO BEARER RELEASE message: AM or UM (1.28 Mcps TDD)

| Information Element            |            | Value/remark                                                                                                                                                       |
|--------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                   | A1, A2,    |                                                                                                                                                                    |
|                                | A3, A4,    |                                                                                                                                                                    |
|                                | A5, A6,    |                                                                                                                                                                    |
|                                | A7, A8     |                                                                                                                                                                    |
| RRC transaction identifier     |            | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info           |            |                                                                                                                                                                    |
| - message authentication code  |            | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number  |            | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Integrity protection mode info |            | Not Present                                                                                                                                                        |
| Ciphering mode info            |            | Not Present                                                                                                                                                        |
| Activation time                | A1, A2,    | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |
|                                | A3, A7, A8 |                                                                                                                                                                    |
| Activation time                | A4, A5, A6 | Not Present                                                                                                                                                        |
| New U-RNTI                     |            | Not Present                                                                                                                                                        |
| New C-RNTI                     | A1,A2,A3,  | Not Present                                                                                                                                                        |
|                                | A4         |                                                                                                                                                                    |
| New C-RNTI                     | A5, A6,    | '1010 1010 1010 1010'                                                                                                                                              |
|                                | A7, A8     |                                                                                                                                                                    |
| New DSCH-RNTI                  | A1, A2,    | Not Present                                                                                                                                                        |
|                                | A3, A4,    |                                                                                                                                                                    |
|                                | A5, A6,    |                                                                                                                                                                    |
|                                | A7, A8     |                                                                                                                                                                    |
| RRC State indicator            | A1,A2, A3, | CELL DCH                                                                                                                                                           |
|                                | A4         |                                                                                                                                                                    |
| RRC State indicator            | A5, A6,    | CELL_FACH                                                                                                                                                          |
|                                | A7, A8     |                                                                                                                                                                    |

| Information Element                                                |                     | Value/remark                                  |
|--------------------------------------------------------------------|---------------------|-----------------------------------------------|
| UTRAN DRX cycle length coefficient                                 | A1,A2,A3,           | Not Present                                   |
|                                                                    | A4,A5,A6,<br>A7, A8 |                                               |
| CN information info                                                | Α1, Α0              | Not Present                                   |
| Signalling Connection release indication                           |                     | Not Present                                   |
| URA identity                                                       |                     | Not Present                                   |
| RAB information to reconfigure list                                |                     | Not Present                                   |
| RB information to release list                                     | A1, A7              | Not i lesent                                  |
| RB information to release list                                     | AI, AI              |                                               |
| - RB identity                                                      |                     | 10                                            |
| RB information to release list                                     | A2, A8              |                                               |
| RB information to release                                          |                     |                                               |
| - RB identity                                                      |                     | 10                                            |
| RB information to release                                          |                     |                                               |
| - RB identity                                                      |                     | 11                                            |
| RB information to release - RB identity                            |                     | 12                                            |
| RB information to release list                                     | A3, A4,             | 12                                            |
| The information to release not                                     | A5, A6              |                                               |
| RB information to release                                          |                     |                                               |
| - RB identity                                                      |                     | 20                                            |
| RB information to be affected list                                 | A1,A2,              | Not Present                                   |
|                                                                    | A3,A4,A5,           |                                               |
| D 11                                                               | A6, A7, A8          | N (B)                                         |
| Downlink counter synchronisation info                              | A1,A2,A3,           | Not Present                                   |
|                                                                    | A4,A5,A6,           |                                               |
| III Turney out the west information common for all transport       | A7, A8              | TECC recention and to fit the provision and   |
| UL Transport channel information common for all transport channels | A1, A2,             | TFCS reconfigured to fit the new transport    |
| UL Transport channel information common for all transport          | A3, A4<br>A5, A6,   | channel configuration.  Not Present           |
| channels                                                           | A5, A6,<br>A7, A8   | Not Present                                   |
| Deleted TrCH information list                                      | A1,A2, A3,          |                                               |
| Deleted Hoff information list                                      | A5, A7, A8          |                                               |
| Deleted UL TrCH Information                                        | A1,A2, A3,          |                                               |
|                                                                    | A5, A7, A8          |                                               |
| - Uplink transport channel type                                    |                     | DCH                                           |
| - Transport channel identity                                       |                     | 1                                             |
| Deleted UL TrCH Information                                        | A2, A8              |                                               |
| <ul> <li>Uplink transport channel type</li> </ul>                  |                     | DCH                                           |
| - Transport channel identity                                       |                     | 2                                             |
| Deleted UL TrCH Information                                        | A2, A8              |                                               |
| - Uplink transport channel type                                    |                     | DCH                                           |
| - Transport channel identity                                       | 1                   | 3                                             |
| Deleted TrCH information list                                      | A4, A6              | Not Present                                   |
| Added or Reconfigured TrCH information list                        | A5, A6,             | Not Present                                   |
| Added or Reconfigured TrCH information list                        | A7, A8<br>A1, A2,   | TrCHs (DCH for DCCH )                         |
| Added of Reconligured TICH Information list                        | A1, A2,<br>A3, A4   | TICHS (DCH IOI DCCH )                         |
| Added or Reconfigured UL TrCH information                          | 710,714             |                                               |
| - Uplink transport channel type                                    |                     | DCH                                           |
| - UL Transport channel identity                                    |                     | 5                                             |
| - TFS                                                              |                     |                                               |
| - CHOICE Transport channel type                                    |                     | Dedicated transport channels                  |
| - Dynamic Transport format information                             |                     |                                               |
| - RLC Size                                                         |                     | Reference to TS34.108 clause 6.11             |
| Number of TDe and TTI List                                         |                     | Parameter Set                                 |
| - Number of TBs and TTI List - Transmission Time Interval          | 1                   | (This IE is repeated for TFI number.)         |
|                                                                    |                     | Not present Reference to TS34.108 clause 6.11 |
| - Number of Transport blocks                                       |                     | Parameter Set                                 |
| - CHOICE Logical Channel list                                      |                     | All (NULL)                                    |
| - Semi-static Transport Format information                         |                     | 1/                                            |
| - Transmission time interval                                       |                     | Reference to TS34.108 clause 6.11             |
|                                                                    |                     | Parameter Set                                 |
| - Type of channel coding                                           | 1                   | Reference to TS34.108 clause 6.11             |
| · · · · · · · · · · · · · · · · · · ·                              | 1                   | Parameter Set                                 |

| Information Element                                       |                                  | Value/remark                                              |
|-----------------------------------------------------------|----------------------------------|-----------------------------------------------------------|
| - Coding Rate                                             |                                  | Reference to TS34.108 clause 6.11                         |
| Goding Hato                                               |                                  | Parameter Set                                             |
| - Rate matching attribute                                 |                                  | Reference to TS34.108 clause 6.11 Parameter Set           |
| - CRC size                                                |                                  | Reference to TS34.108 clause 6.11 Parameter Set           |
| CHOICE mode                                               |                                  | TDD (No data)                                             |
| DL Transport channel information common for all transport | A1, A2,                          | TFCS reconfigured to fit the new transport                |
| channels                                                  | A3, A4,                          | channel configuration.                                    |
| DL Transport channel information common for all transport | A5, A6,                          | Not Present                                               |
| channels                                                  | A7, A8                           |                                                           |
| Deleted TrCH information list                             |                                  |                                                           |
| - Deleted DL TrCH Information                             | A1, A2,<br>A3, A5,A7,<br>A8      |                                                           |
| <ul> <li>Downlink transport channel type</li> </ul>       |                                  | DCH                                                       |
| - Transport channel identity                              |                                  | 6                                                         |
| - Deleted DL TrCH Information                             | A2, A8                           |                                                           |
| - Downlink transport channel type                         |                                  | DCH                                                       |
| - Transport channel identity                              | 1                                | 7                                                         |
| - Deleted DL TrCH Information                             | A2, A8                           | POLL                                                      |
| - Downlink transport channel type                         |                                  | DCH                                                       |
| - Transport channel identity                              | A 4 A 6                          | 8                                                         |
| Deleted TrCH information list                             | A4, A6                           | Not Present                                               |
| Added or Reconfigured TrCH information list               | 15.40                            | Not Decoupt                                               |
| - Added or Reconfigured DL TrCH information               | A5, A6,                          | Not Present                                               |
| Added as December and DL TrOLL information                | A7, A8                           | 4 TrOUs (DOUGS DOOU)                                      |
| - Added or Reconfigured DL TrCH information               | A1, A2,<br>A3, A4                | 1 TrCHs (DCH for DCCH)                                    |
| - Downlink transport channel type                         |                                  | DCH                                                       |
| - DL Transport channel identity                           |                                  | 10                                                        |
| - CHOICE DL parameters                                    |                                  | Same as UL                                                |
| - Uplink transport channel type                           |                                  | DCH                                                       |
| - UL TrCH identity                                        |                                  | 5                                                         |
| - DCH quality target                                      |                                  |                                                           |
| - BLER Quality value                                      | 1 1 10                           | -2.0 Real(-6.30 by step of 0.1)                           |
| Frequency info                                            | A1, A2,<br>A3, A4,<br>A5, A7, A8 |                                                           |
| - Choice mode                                             |                                  | TDD                                                       |
| - UARFCN (Nt)                                             | A.C.                             | Reference to clause 5.1 Test frequencies                  |
| Frequency info Maximum allowed UL TX power                | A6<br>A1, A2,                    | Not Present                                               |
| iwaximum allowed OL 1X power                              | A1, A2,<br>A3, A4,<br>A7, A8     | 33dBm                                                     |
| Maximum allowed UL TX power                               | A5, A6                           | using the default value                                   |
| CHOICE channel requirement                                | A5, A6 ,<br>A7, A8               | Not Present                                               |
| CHOICE channel requirement                                | A1, A2,<br>A3, A4                | Uplink DPCH info                                          |
| - Uplink DPCH power control info                          |                                  | Not Present                                               |
| - CHOICE mode                                             |                                  | TDD                                                       |
| - Uplink Timing Advance Control                           |                                  | Not Present                                               |
| - UL CCTrCH List                                          |                                  |                                                           |
| - TFCS ID                                                 |                                  | 1                                                         |
| - UL Target SIR                                           |                                  | Real (-11 20 by step of 0.5dB)                            |
| •                                                         |                                  | Reference to TS34.108 Parameter set.                      |
| - Time info                                               | 1                                | (050, 051) (051) (105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| - Activation time                                         |                                  | (256+CFN-(CFN MOD 8 + 8))MOD 256                          |
| - Duration                                                |                                  | Infinite                                                  |
| - Common timeslot info                                    |                                  |                                                           |
| - 2 <sup>nd</sup> interleaving mode                       |                                  | Default value is "Frame"                                  |
| - TFCI coding                                             |                                  | Reference to TS34.108 clause 6 Parameter set              |
| - Puncturing limit                                        |                                  | Reference to TS34.108 clause 6 Parameter                  |

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| Information Element                                        |                    | Value/remark                                                     |
|------------------------------------------------------------|--------------------|------------------------------------------------------------------|
|                                                            |                    | set                                                              |
| - Repetition period                                        |                    | 1                                                                |
| - Repetition length                                        |                    |                                                                  |
| - Uplink DPCH timeslots and code                           |                    |                                                                  |
| - Dynamic SF usage                                         |                    | FALSE                                                            |
| - First individual timeslot info                           |                    |                                                                  |
| - Timeslot number                                          |                    |                                                                  |
| - CHOICE TDD option                                        |                    | 1.28 Mcps TDD                                                    |
| - Timeslot number                                          |                    | 1 OR 2 OR 3                                                      |
| - TFCI existence                                           |                    | TRUE                                                             |
| - Midamble shift and burst type                            |                    |                                                                  |
| - CHOICE TDD option                                        |                    | 1.28 Mcps TDD                                                    |
| - Midamble allocation mode                                 |                    | Default midamble                                                 |
| - Midamble configuration                                   |                    | 16                                                               |
| - Midamble Shift                                           |                    | Not Present                                                      |
| - CHOICE TDD option                                        |                    | 1.28 Mcps TDD                                                    |
| - Modulation                                               |                    | QPSK                                                             |
| - SS-TPC Symbols                                           |                    | 1                                                                |
| - Additional TPC-SS Symbols                                |                    | Not present                                                      |
| - First timeslot Code List                                 |                    | Repeated (1,2) for each channelisation                           |
|                                                            |                    | code assigned in the slot to meet the needs of TS34.108 clause 6 |
|                                                            |                    | Parameter Set.                                                   |
| - channelisation codes                                     |                    | (SF/ i) where i denotes an unassigned code                       |
| S.I.d.III O.I.dalio I.                                     |                    | matching the SF specified in                                     |
|                                                            |                    | TS34.108 clause 6 Parameter Set.                                 |
| - CHOICE more timeslots                                    |                    | No more timeslots                                                |
| - UL CCTrCH List to Remove                                 |                    | Not present                                                      |
| CHOICE Mode                                                | A1, A2,            | TDD                                                              |
|                                                            | A3, A4,            |                                                                  |
|                                                            | A5, A6,            |                                                                  |
| Downlink HS-PDSCH Information                              | A7, A8             | Not Present                                                      |
| Downlink 113-F D3C11 Information                           | A1, A2,<br>A3, A4, | Not Flesent                                                      |
|                                                            | A5, A6,            |                                                                  |
|                                                            | A7, A8             |                                                                  |
| Downlink information common for all radio links            | A5, A6,            | Not Present                                                      |
|                                                            | A7, A8             |                                                                  |
| Downlink information common for all radio links            | A1, A2, A3         |                                                                  |
| Downlink DPCH info common for all RL     Timing indication |                    | Maintain                                                         |
| - CFN-targetSFN frame offset                               |                    | Not Present                                                      |
| - Downlink DPCH power control information                  |                    | 1100 III                                                         |
| - CHOICE mode                                              |                    | TDD                                                              |
| - TPC Step Size                                            |                    | 1                                                                |
| - MAC-d HFN initial value                                  |                    | Not Present                                                      |
| - CHOICE mode                                              |                    | TDD                                                              |
| - CHOICE mode                                              |                    | TDD                                                              |
| - CHOICE TDD option - TSTD indicator                       |                    | 1.28 Mcps TDD<br>FALSE                                           |
| - 1510 Indicator<br>- Default DPCH Offset Value            |                    | Not Present                                                      |
| Downlink information common for all radio links            | A4                 | 113.1 100011                                                     |
| - Downlink DPCH info common for all RL                     |                    |                                                                  |
| - Timing indication                                        |                    | Initialise                                                       |
| - CFN-targetSFN frame offset                               |                    | Not Present                                                      |
| - Downlink DPCH power control information                  |                    | TDD                                                              |
| - CHOICE mode                                              |                    | TDD                                                              |
| - TPC Step Size<br>- MAC-d HFN initial value               |                    | 1 Not Present                                                    |
| - CHOICE mode                                              |                    | TDD                                                              |
| - CHOICE mode                                              |                    | TDD                                                              |
| - CHOICE TDD option                                        |                    | 1.28 Mcps TDD                                                    |
| - TSTD indicator                                           |                    | FALSE                                                            |
| - Default DPCH Offset Value                                |                    |                                                                  |
| - CHOICE mode                                              | 1                  | TDD                                                              |

| Information Element                                                |                    | Value/remark                                                                |
|--------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------|
| - Default DPCH Offset Value                                        |                    | 0 Integer(07)                                                               |
| Downlink information per radio link list                           | A1, A2,<br>A3, A4, |                                                                             |
| <ul> <li>Downlink information for each radio link</li> </ul>       |                    |                                                                             |
| - Choice mode                                                      |                    | TDD                                                                         |
| - Primary CCPCH info                                               |                    |                                                                             |
| - Choice mode                                                      |                    | TDD                                                                         |
| - Choice TDD Option                                                |                    | 1.28 Mcps TDD                                                               |
| - TSTD indicator                                                   |                    | FALSE                                                                       |
| - Cell parameters ID                                               |                    | Ref. to the Default setting in TS34.108                                     |
| - SCTD indicator                                                   |                    | clause 6.1 (TDD) Integer(0127)                                              |
| - Downlink DPCH info for each RL                                   |                    | FALSE                                                                       |
| - CHOICE mode                                                      |                    | TDD                                                                         |
| - DL CCTrCh List                                                   |                    | 155                                                                         |
| - TFCS ID                                                          |                    | 2 Integer(1.8)                                                              |
| - Time info                                                        |                    | ege.(e)                                                                     |
| - Activation time                                                  |                    | Now                                                                         |
| - Duration                                                         |                    | Infinite                                                                    |
| - Common timeslot info                                             |                    |                                                                             |
| - 2 <sup>nd</sup> interleaving mode                                |                    | Default value is "Frame"                                                    |
| - TFCI coding                                                      |                    | Reference to TS34.108 clause 6 Parameter                                    |
| - Puncturing limit                                                 |                    | set Reference to TS34.108 clause 6 Parameter                                |
| ·                                                                  |                    | set                                                                         |
| - Repetition period                                                |                    | 1                                                                           |
| - Repetition length                                                |                    | NULL                                                                        |
| - Downlink DPCH timeslots and codes                                |                    |                                                                             |
| - First individual timeslot info                                   |                    |                                                                             |
| - Timeslot number                                                  |                    |                                                                             |
| - CHOICE TDD option                                                |                    | 1.28 Mcps TDD                                                               |
| - Timeslot number                                                  |                    | 4 OR 5 OR 6                                                                 |
| - TFCI existence                                                   |                    | TRUE                                                                        |
| Midamble shift and burst type                                      |                    | TROE                                                                        |
| - CHOICE TDD option                                                |                    | 1.28 Mcps TDD                                                               |
| - Midamble allocation mode                                         |                    | Default midamble                                                            |
|                                                                    |                    | 16                                                                          |
| <ul> <li>Midamble configuration</li> <li>Midamble Shift</li> </ul> |                    | Not Present                                                                 |
|                                                                    |                    |                                                                             |
| - CHOICE TDD option                                                |                    | 1.28 Mcps TDD                                                               |
| - Modulation                                                       |                    | QPSK                                                                        |
| - SS-TPC Symbols                                                   |                    | 1                                                                           |
| - Additional TPC-SS Sysbols                                        |                    | Not present                                                                 |
| <ul> <li>First timeslot channelisation codes</li> </ul>            |                    | Repeated (1,2) for each channelisation                                      |
|                                                                    |                    | code assigned in the slot to meet                                           |
|                                                                    |                    | the needs of TS34.108 clause 6                                              |
| - CHOICE codes representation                                      |                    | Parameter Set. Bitmap                                                       |
| - CHOICE codes representation                                      |                    | · ·                                                                         |
| - Channelisation codes bitmap                                      |                    | Reference to TS34.108 clause 6.10 Parameter Set                             |
| - CHOICE more timeslots                                            |                    | No more timeslots                                                           |
|                                                                    |                    |                                                                             |
| - UL CCTrCH TPC List                                               |                    | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. |
| - DL CCTrCH List to Remove                                         |                    | Not present                                                                 |
| - SCCPCH Information for FACH                                      |                    | Not Present                                                                 |
| Downlink information per radio link list                           | A5 ,A7, A8         | HOLFIESCH                                                                   |
| - Downlink information for each radio link                         | , 10 ,, 11 , 710   |                                                                             |
| - Choice mode                                                      |                    | TDD                                                                         |
| - Primary CCPCH info                                               |                    |                                                                             |
| - Choice mode                                                      |                    | TDD                                                                         |
| - Choice TDD Option                                                |                    | 1.28 Mcps TDD                                                               |
| - TSTD indicator                                                   |                    | FALSE                                                                       |
| - Cell parameters ID                                               |                    | Ref. to the Default setting in TS34.108                                     |
|                                                                    |                    | clause 6.1 (TDD) Integer(0127)                                              |
| - SCTD indicator                                                   |                    | FALSE                                                                       |
| - Downlink DPCH info for each RL                                   |                    | Not Present                                                                 |

| Information Element                      |    | Value/remark |
|------------------------------------------|----|--------------|
| - SCCPCH Information for FACH            |    | Not Present  |
| Downlink information per radio link list | A6 | Not Present  |

| Condition | Explanation                                                    |
|-----------|----------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                            |
| A2        | This IE need for "Speech in CS"                                |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"      |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"     |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"     |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"    |
| A7        | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS" |
| A8        | This IE need for "Speech to CELL_FACH from CELL_DCH in CS"     |

## Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                    |
| RRC transaction identifier    | 0                                                                                                                                                                  |
| Integrity check info          |                                                                                                                                                                    |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |
| CN domain identity            | CS domain or PS domain                                                                                                                                             |
| NAS message                   | See Specific Message Content for each test case                                                                                                                    |

#### Contents of INITIAL DIRECT TRANSFER message: AM

| Information Element            | Value/remark                                                                                                                                                                                         | Version |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                   |                                                                                                                                                                                                      |         |
| Integrity check info           |                                                                                                                                                                                                      |         |
| - Message authentication code  | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number  | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| CN domain identity             | CS domain or PS domain                                                                                                                                                                               |         |
| Intra Domain NAS Node Selector | Set to the same octet string as in the IMSI stored in the USIM card                                                                                                                                  |         |
| NAS message                    | Set according to that indicated in specific message content for each test case                                                                                                                       |         |
| START                          | Not checked                                                                                                                                                                                          |         |
| Establishment cause            | See the specific test case                                                                                                                                                                           | REL-5   |
| Measured results on RACH       | Not checked                                                                                                                                                                                          |         |

## Contents of PAGING TYPE 1 message: TM (Speech in CS)

| Information Element           | Value/remark                                              |
|-------------------------------|-----------------------------------------------------------|
| Message Type                  |                                                           |
| Paging record list            |                                                           |
| - Paging record               |                                                           |
| - CHOICE Used paging identity | CN identity                                               |
| - Paging cause                | Terminating Conversational Call                           |
| - CN domain identity          | CS domain                                                 |
| - CHOICE UE identity          |                                                           |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |
|                               | USIM card                                                 |
| BCCH modification info        | Not Present                                               |

## Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

| Information Element           | Value/remark                                              |
|-------------------------------|-----------------------------------------------------------|
| Message Type                  |                                                           |
| Paging record list            |                                                           |
| - Paging record               |                                                           |
| - CHOICE Used paging identity | CN identity                                               |
| - Paging cause                | Terminating Streaming Call                                |
| - CN domain identity          | CS domain                                                 |
| - CHOICE UE identity          |                                                           |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |
| ,                             | USIM card                                                 |
| BCCH modification info        | Not Present                                               |

## Contents of PAGING TYPE 1 message: TM (Packet in PS)

| Information Element           | Value/remark                                              |
|-------------------------------|-----------------------------------------------------------|
| Message Type                  |                                                           |
| Paging record list            |                                                           |
| - Paging record               |                                                           |
| - CHOICE Used paging identity | CN identity                                               |
| - Paging cause                | Terminating Interactive Call                              |
| - CN domain identity          | PS domain                                                 |
| - CHOICE UE identity          |                                                           |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |
|                               | USIM card                                                 |
| BCCH modification info        | Not Present                                               |

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (3.84 Mcps TDD option)

| Information Element                                                               | Value/remark                                                                                                            | Version |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                                                      |                                                                                                                         |         |
| RRC transaction identifier                                                        | 0                                                                                                                       |         |
| Integrity check info                                                              |                                                                                                                         |         |
| - message authentication code                                                     | SS calculates the value of MAC-I for this message and                                                                   |         |
|                                                                                   | writes to this IE. The first/ leftmost bit of the bit string                                                            |         |
| DDO                                                                               | contains the most significant bit of the MAC-I.                                                                         |         |
| - RRC message sequence number                                                     | SS provides the value of this IE, from its internal counter.                                                            |         |
| Integrity protection mode info                                                    | Not Present                                                                                                             |         |
| Ciphering mode info                                                               | The presence of this IE is dependent on IXIT statements in TS 24.122.2. If sinh aring is indicated to be active, this   |         |
|                                                                                   | in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. |         |
|                                                                                   | Else, this IE is omitted.                                                                                               |         |
| - Ciphering mode command                                                          | Start/restart                                                                                                           |         |
| - Ciphering mode command - Ciphering algorithm                                    | Use one of the supported ciphering algorithms                                                                           |         |
| - Ciphering algorithm - Ciphering activation time for DPCH                        | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                        |         |
| - Radio bearer downlink ciphering activation time                                 | Not Present                                                                                                             |         |
| info                                                                              | Not i resent                                                                                                            |         |
| Activation time                                                                   | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                        |         |
| New U-RNTI                                                                        | Not Present                                                                                                             |         |
| New C-RNTI                                                                        | Not Present                                                                                                             |         |
| New DSCH-RNTI                                                                     | Not Present                                                                                                             |         |
| New H-RNTI                                                                        | Not Present                                                                                                             | REL-5   |
| RRC State indicator                                                               | CELL_DCH                                                                                                                |         |
| UTRAN DRX cycle length coefficient                                                | Not Present                                                                                                             |         |
| CN information info                                                               | Not Present                                                                                                             |         |
| URA identity                                                                      | Not Present                                                                                                             |         |
| CHOICE specification mode                                                         | Complete specification                                                                                                  | REL-5   |
| - Complete specification                                                          |                                                                                                                         | REL-5   |
| <ul> <li>Signalling RB information to setup list</li> </ul>                       | Not Present                                                                                                             |         |
| - RAB information for setup list                                                  |                                                                                                                         |         |
| - RAB information for setup                                                       |                                                                                                                         |         |
| - RAB info                                                                        |                                                                                                                         |         |
| - RAB identity                                                                    | 0000 0001B                                                                                                              |         |
|                                                                                   | The first/ leftmost bit of the bit string contains the most                                                             |         |
| ON 1 1 11 17                                                                      | significant bit of the RAB identity.                                                                                    |         |
| - CN domain identity                                                              | CS domain                                                                                                               |         |
| <ul> <li>NAS Synchronization Indicator</li> <li>Re-establishment timer</li> </ul> | Not Present                                                                                                             |         |
|                                                                                   | UseT314                                                                                                                 |         |
| <ul><li>RB information to setup</li><li>RB identity</li></ul>                     | 10                                                                                                                      |         |
| - PDCP info                                                                       | Not Present                                                                                                             |         |
| - CHOICE RLC info type                                                            | RLC info                                                                                                                |         |
| - CHOICE Uplink RLC mode                                                          | TM RLC                                                                                                                  |         |
| - Transmission RLC discard                                                        | Not Present                                                                                                             |         |
| - Segmentation indication                                                         | FALSE                                                                                                                   |         |
| - CHOICE Downlink RLC mode                                                        | TM RLC                                                                                                                  |         |
| - Segmentation indication                                                         | FALSE                                                                                                                   |         |
| - RB mapping info                                                                 |                                                                                                                         |         |
| - Information for each multiplexing option                                        |                                                                                                                         |         |
| - RLC logical channel mapping indicator                                           | Not Present                                                                                                             |         |
| - Number of uplink RLC logical channels                                           | 1                                                                                                                       |         |
| <ul> <li>Uplink transport channel type</li> </ul>                                 | DCH                                                                                                                     |         |
| <ul> <li>UL Transport channel identity</li> </ul>                                 | 1                                                                                                                       |         |
| <ul> <li>Logical channel identity</li> </ul>                                      | Not Present                                                                                                             |         |
| - CHOICE RLC size list                                                            | Configured                                                                                                              |         |
| - MAC logical channel priority                                                    | 6                                                                                                                       |         |
| - Downlink RLC logical channel info                                               |                                                                                                                         |         |
| - Number of downlink RLC logical channels                                         |                                                                                                                         |         |
| - Downlink transport channel type                                                 | DCH                                                                                                                     |         |
| - DL DCH Transport channel identity                                               | 6<br>Not Present                                                                                                        |         |
| - DL DSCH Transport channel identity                                              | Not Present                                                                                                             |         |
| - Logical channel identity                                                        | Not Present                                                                                                             |         |
| - RB identity<br>- PDCP info                                                      | 11<br>Not Present                                                                                                       |         |
| - CHOICE RLC info type                                                            | RLC info                                                                                                                |         |
| OFFICIAL RED IIIIO type                                                           | I NEO IIIIO                                                                                                             | I       |

| Information Element                                          | Value/remark                                                                                                                   | Version |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------|
| - CHOICE Uplink RLC mode                                     | TM RLC                                                                                                                         |         |
| - Transmission RLC discard                                   | Not Present                                                                                                                    |         |
| - Segmentation indication                                    | FALSE                                                                                                                          |         |
| - CHOICE Downlink RLC mode                                   | TM RLC                                                                                                                         |         |
| - Segmentation indication                                    | FALSE                                                                                                                          |         |
| - RB mapping info                                            |                                                                                                                                |         |
| - Information for each multiplexing option                   |                                                                                                                                |         |
| - RLC logical channel mapping indicator                      | Not Present                                                                                                                    |         |
| - Number of uplink RLC logical channels                      | 1                                                                                                                              |         |
| - Uplink transport channel type                              | DCH                                                                                                                            |         |
| - UL Transport channel identity                              | 2                                                                                                                              |         |
| - Logical channel identity                                   | Not Present                                                                                                                    |         |
| - CHOICE RLC size list                                       | Configured                                                                                                                     |         |
| - MAC logical channel priority                               | 6                                                                                                                              |         |
| - Downlink RLC logical channel info                          |                                                                                                                                |         |
| Number of downlink RLC logical channels                      | 1                                                                                                                              |         |
| Downlink transport channel type                              | DCH                                                                                                                            |         |
| - DCH Transport channel identity                             | 7                                                                                                                              |         |
|                                                              |                                                                                                                                |         |
| - DL DSCH Transport channel identity                         | Not Present                                                                                                                    |         |
| - Logical channel identity                                   | Not Present                                                                                                                    |         |
| - RB identity                                                | 12                                                                                                                             |         |
| - PDCP info                                                  | Not Present                                                                                                                    |         |
| - CHOICE RLC info type                                       | RLC info                                                                                                                       |         |
| - CHOICE Uplink RLC mode                                     | TM RLC                                                                                                                         |         |
| - Transmission RLC discard                                   | Not Present                                                                                                                    |         |
| <ul> <li>Segmentation indication</li> </ul>                  | FALSE                                                                                                                          |         |
| - CHOICE Downlink RLC mode                                   | TM RLC                                                                                                                         |         |
| <ul> <li>Segmentation indication</li> </ul>                  | FALSE                                                                                                                          |         |
| - RB mapping info                                            |                                                                                                                                |         |
| <ul> <li>Information for each multiplexing option</li> </ul> |                                                                                                                                |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                                                                                                    |         |
| - Number of uplink RLC logical channels                      | 1                                                                                                                              |         |
| - Uplink transport channel type                              | DCH                                                                                                                            |         |
| - UL Transport channel identity                              | 3                                                                                                                              |         |
| - Logical channel identity                                   | Not Present                                                                                                                    |         |
| - CHOICE RLC size list                                       | Configured                                                                                                                     |         |
| - MAC logical channel priority                               | 6                                                                                                                              |         |
| - Downlink RLC logical channel info                          |                                                                                                                                |         |
| - Number of downlink RLC logical channels                    | 1                                                                                                                              |         |
| - Downlink transport channel type                            | DCH                                                                                                                            |         |
| - DL DCH Transport channel identity                          | 8                                                                                                                              |         |
| - DL DSCH Transport channel identity                         | Not Present                                                                                                                    |         |
| - Logical channel identity                                   | Not Present                                                                                                                    |         |
| RB information to be affected list                           | Not Present                                                                                                                    |         |
|                                                              |                                                                                                                                |         |
| Downlink counter synchronisation info                        | Not Present                                                                                                                    |         |
| UL Transport channel information for all transport           |                                                                                                                                |         |
| channels                                                     | Not Droppet                                                                                                                    |         |
| - PRACH TFCS                                                 | Not Present                                                                                                                    |         |
| - CHOICE mode                                                | TDD                                                                                                                            |         |
| -Individual UL CCTrCH information                            | (TI: 15: ( ) ( TEO )                                                                                                           |         |
| - TFCS ID                                                    | (This IE is repeated for TFC number.)                                                                                          |         |
| <ul> <li>Allowed Transport Format combination</li> </ul>     | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to                                                                                    |         |
|                                                              | TS34.108 clause 6 Parameter Set.)                                                                                              |         |
| - PRACH TFCS                                                 | (This IE is repeated for TFC number.)                                                                                          |         |
| - CHOICE TFCI signalling                                     | Normal                                                                                                                         |         |
| - TFCI Field 1 information                                   |                                                                                                                                |         |
| <ul> <li>TFCS complete reconfigure information</li> </ul>    |                                                                                                                                |         |
| - CHOICE TFCS Size                                           | Number of used bits must be enough to cover all combinations of CTFC from clauses 6.  Refer to TS34.108 clause 6 Parameter Set |         |
| - CTFC information                                           | Not Present                                                                                                                    |         |
| - CHOICE mode                                                | TDD                                                                                                                            |         |
| - Individual UL CCTrCH information                           | Not Present                                                                                                                    |         |
| Deleted TrCH information list                                | Not Present                                                                                                                    |         |
| Added or Reconfigured TrCH information list                  | 3 DCHs                                                                                                                         |         |
| - Added or Reconfigured UL TrCH information                  | 0 00113                                                                                                                        |         |
|                                                              | DCH                                                                                                                            |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | DCH                                                                                                                            |         |

| Information Element                                                                               | Value/remark                                       | Version |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| - UL Transport channel identity                                                                   | 1                                                  |         |
| - TFS                                                                                             |                                                    |         |
| <ul> <li>CHOICE Transport channel type</li> </ul>                                                 | Dedicated transport channels                       |         |
| - Dynamic Transport format information                                                            |                                                    |         |
| - RLC Size                                                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Number of TBs and TTI List                                                                      | (This IE is repeated for TFI number.)              |         |
| - Transmission Time Interval                                                                      | Not Present                                        |         |
| - Number of Transport blocks                                                                      | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - CHOICE Logical Channel list                                                                     | All                                                |         |
| Semi-static Transport Format information     Transmission time interval                           | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Transmission time interval - Type of channel coding                                             | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Coding Rate                                                                                     | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Rate matching attribute                                                                         | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - CRC size                                                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Uplink transport channel type                                                                   | DCH                                                |         |
| - UL Transport channel identity                                                                   | 2                                                  |         |
| - TFS                                                                                             |                                                    |         |
| <ul> <li>CHOICE Transport channel type</li> </ul>                                                 | Dedicated transport channels                       |         |
| <ul> <li>Dynamic Transport format information</li> </ul>                                          |                                                    |         |
| - RLC Size                                                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Number of TBs and TTI List                                                                      | (This IE is repeated for TFI number.)              |         |
| - Transmission Time Interval                                                                      | Not Present                                        |         |
| - Number of Transport blocks                                                                      | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Transmission Time Interval                                                                      | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Number of Transport blocks                                                                      | (This IE is repeated for TFI number.) All          |         |
| <ul> <li>CHOICE Logical Channel list</li> <li>Semi-static Transport Format information</li> </ul> | All                                                |         |
| Transmission time interval                                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Type of channel coding                                                                          | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Coding Rate                                                                                     | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Rate matching attribute                                                                         | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - CRC size                                                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| <ul> <li>Uplink transport channel type</li> </ul>                                                 | DCH                                                |         |
| <ul> <li>UL Transport channel identity</li> </ul>                                                 | 3                                                  |         |
| - TFS                                                                                             |                                                    |         |
| - CHOICE Transport channel type                                                                   | Dedicated transport channels                       |         |
| - Dynamic Transport format information                                                            | D (                                                |         |
| - RLC Size                                                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| Number of TBs and TTI List     Transmission Time Interval                                         | (This IE is repeated for TFI number.)  Not Present |         |
| - Number of Transport blocks                                                                      | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Transmission Time Interval                                                                      | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Number of Transport blocks                                                                      | (This IE is repeated for TFI number.)              |         |
| - CHOICE Logical Channel list                                                                     | All                                                |         |
| - Semi-static Transport Format information                                                        |                                                    |         |
| - Transmission time interval                                                                      | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| <ul> <li>Type of channel coding</li> </ul>                                                        | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Coding Rate                                                                                     | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - Rate matching attribute                                                                         | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| - CRC size<br>CHOICE mode                                                                         | Reference to TS34.108 clause 6.10 Parameter Set    |         |
| DL Transport channel information common for all                                                   | TDD (no data)                                      |         |
| transport channel                                                                                 |                                                    |         |
| - SCCPCH TFCS                                                                                     | Not Present                                        |         |
| - CHOICE mode                                                                                     | TDD                                                |         |
| - CHOICE DL parameters                                                                            | Same as UL                                         |         |
| Deleted TrCH information list                                                                     | Not Present                                        |         |
| Added or Reconfigured TrCH information list                                                       | 3 DCHs                                             |         |
| Added or Reconfigured DL TrCH information                                                         |                                                    |         |
| <ul> <li>Downlink transport channel type</li> </ul>                                               | DCH                                                |         |
| - DL Transport channel identity                                                                   | 6                                                  |         |
| - CHOICE DL parameters                                                                            | Same as UL                                         |         |
| - Uplink transport channel type                                                                   | DCH                                                |         |
| - UL TrCH identity                                                                                | 1                                                  |         |
| <ul> <li>DCH quality target</li> <li>BLER Quality value</li> </ul>                                | -6.3                                               |         |
| DEEN Quality value                                                                                | 1 0.0                                              | I       |

| Information Element                                     | Value/remark                                            | Version |
|---------------------------------------------------------|---------------------------------------------------------|---------|
| - Downlink transport channel type                       | DCH                                                     |         |
| - DL Transport channel identity                         | 7                                                       |         |
| - CHOICE DL parameters                                  | Same as UL                                              |         |
| - Uplink transport channel type                         | DCH                                                     |         |
| - UL TrCH identity                                      | 2                                                       |         |
| - DCH quality target                                    |                                                         |         |
| - BLER Quality value                                    | Not Present                                             |         |
| <ul> <li>Downlink transport channel type</li> </ul>     | DCH                                                     |         |
| - DL Transport channel identity                         | 8                                                       |         |
| - CHOICE DL parameters                                  | Same as UL                                              |         |
| <ul> <li>Uplink transport channel type</li> </ul>       | DCH                                                     |         |
| - UL TrCH identity                                      | 3                                                       |         |
| - DCH quality target                                    |                                                         |         |
| - BLER Quality value                                    | Not Present                                             |         |
| Frequency info                                          |                                                         |         |
| - UARFCN Nt)                                            | Reference to clause 5.1 Test frequencies                |         |
| Maximum allowed UL TX power                             | 30dBm                                                   |         |
| CHOICE channel requirement                              | Uplink DPCH info                                        |         |
| - Uplink DPCH power control info                        |                                                         |         |
| - CHOICE mode                                           | TDD                                                     |         |
| - UL Target SIR                                         | Reference to TS34.108 Parameter set.                    |         |
| - CHOICE UL OL PC info                                  | Individually signalled                                  |         |
| - CHOICE TDD option                                     | 3.84 Mcps                                               |         |
| - Individual timeslot interference info                 |                                                         |         |
| - DPCH Constant Value                                   | TDD                                                     |         |
| - CHOICE mode                                           | TDD                                                     |         |
| - Uplink Timing Advance Control                         | Not Present                                             |         |
| - UL CCTrCH List                                        | 4                                                       |         |
| - TFCS Id                                               | 1                                                       |         |
| - Time info<br>- Activation time                        | (256 - CEN (CEN MOD 8 + 8))MOD 256                      |         |
| - Activation time<br>- Duration                         | (256+CFN-(CFN MOD 8 + 8))MOD 256<br>infinite            |         |
| - Common timeslot info                                  | minice                                                  |         |
| - 2 <sup>nd</sup> interleaving mode                     | Reference to TS34.108 clause 6 Parameter Set.           |         |
| - TFCI coding                                           | Reference to TS34.108 clause 6 Parameter set.           |         |
| - Puncturing Limit                                      | Reference to TS34.108 clause 6 Parameter set.           |         |
| - i dilotaning Limit                                    | Reference to 1004.100 clause of arameter set.           |         |
| - Repetition Period                                     | Reference to TS34.108 clause 6 Parameter set.           |         |
| - Repetition Length                                     | Reference to TS34.108 clause 6 Parameter set.           |         |
| - Uplink DPCH timeslots and code                        |                                                         |         |
| - First individual timeslot info                        |                                                         |         |
| - Timeslot number                                       | The number of an uplink timeslot that has unassigned    |         |
|                                                         | codes.                                                  |         |
| - TFCI existence                                        | TRUE                                                    |         |
| <ul> <li>Midamble shift and burst type</li> </ul>       |                                                         |         |
| - CHOICE TDD option                                     | 3.84 Mcps                                               |         |
| - Midamble allocation mode                              | Default                                                 |         |
| <ul> <li>Midamble configuration burst type 1</li> </ul> | 16                                                      |         |
| and 3                                                   |                                                         |         |
| - CHOICE TDD option                                     | (no data)                                               |         |
| <ul> <li>First timeslot channelisation codes</li> </ul> | Repeated (1,2) for each channelisation code assigned in |         |
|                                                         | the slot to meet the needs of TS34.108 clause 6         |         |
|                                                         | Parameter Set.                                          |         |
| - Channelisation code                                   | (i/SF) where i denotes an unassigned code               |         |
|                                                         | matching the SF specified in TS34.108 clause 6          |         |
| 0110105                                                 | Parameter Set.                                          |         |
| - CHOICE more timeslots                                 | The presence of this IE depends upon the number of      |         |
|                                                         | resources specified in TS34.108 section 6 and the       |         |
| D. F. LUO DDOCULA                                       | number of slots in which they are being assigned.       | DE: -   |
| Downlink HS-PDSCH Information                           | Not Present                                             | REL-5   |
| Downlink information common for all radio links         |                                                         |         |
| - Downlink DPCH info common for all RL                  | Matingation                                             |         |
| - Timing indication                                     | Maintain                                                |         |
| - CFN-targetSFN frame offset                            | Not Present                                             |         |
| - Downlink DPCH power control information               |                                                         |         |

| Information Element                                     | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| - CHOICE mode                                           | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - TPC step size                                         | 1 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - CHOICE mode                                           | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE TDD option                                     | 3.84 Mcps (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Default DPCH offset value                             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Downlink information for each radio link              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Choice mode                                           | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Primary CCPCH info                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE TDD option                                     | 3.84 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - CHOICE SyncCase                                       | Sync Case 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Timeslot                                              | PCCPCH timeslot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Cell parameters ID                                    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - SCTD indicator                                        | o de la companya de l |         |
| - Downlink DPCH info for each RL                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE mode                                           | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
|                                                         | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - DL CCTrCH List                                        | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - TFCS ID                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Time info                                             | (256 , CEN (CEN mod 8 , 2)) =================================                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - Activation time                                       | (256+CFN-(CFN mod 8 + 8))mod 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - Duration                                              | infinite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Common timeslot info                                  | B ( T004.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| - 2nd interleaving mode                                 | Reference to TS34.108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| - TFCI coding                                           | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Puncturing limit                                      | Reference to TS34.108 clause 6 Parameter set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| - Repetition period                                     | 1 .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Repetition length                                     | Empty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| <ul> <li>Downlink DPCH timeslots and codes</li> </ul>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>Individual timeslot info</li> </ul>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Timeslot number                                       | The number of a downlink timeslot that has                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
|                                                         | unassigned codes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - TFCI existence                                        | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| <ul> <li>Midamble shift and burst type</li> </ul>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>CHOICE TDD option</li> </ul>                   | 3.84 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| -CHOICE Burst Type                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| -Type 1                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| -Midamble Allocation Mode                               | Default                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| <ul> <li>Midamble configuration burst</li> </ul>        | As defined in 3GPP TS 25.221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| type 1 and 3                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>First timeslot channelisation codes</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>First channelisation code</li> </ul>           | (i/SF) where i is the lowest numbered code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
|                                                         | that is being assigned and SF is specified in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
|                                                         | TS34.108 clause 6 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>Last channelisation code</li> </ul>            | (j/SF) where j is the highest numbered code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
|                                                         | that is being assigned in the slot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Bitmap                                                | Bitmap of the codes that are being assigned in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| ·                                                       | the slot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - CHOICE more timeslots                                 | The presence of this IE depends upon whether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
|                                                         | the requirements of TS34.108 clause 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
|                                                         | Parameter Set could be met by the codes that                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
|                                                         | have been assigned in the first timeslot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - UL CCTrCH TPC List                                    | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| -SCCPCH information for FACH                            | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| 222 211                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |

# Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL\_DCH from CELL\_DCH in PS) (3.84 Mcps TDD option)

| Information Element                                                 | Value/remark                                                 | Version        |
|---------------------------------------------------------------------|--------------------------------------------------------------|----------------|
| Message Type                                                        |                                                              |                |
| RRC transaction identifier                                          | 0                                                            |                |
| Integrity check info                                                |                                                              |                |
| <ul> <li>message authentication code</li> </ul>                     | SS calculates the value of MAC-I for this message and        |                |
|                                                                     | writes to this IE. The first/ leftmost bit of the bit string |                |
|                                                                     | contains the most significant bit of the MAC-I.              |                |
| - RRC message sequence number                                       | SS provides the value of this IE, from its internal counter. |                |
| Integrity protection mode info                                      | Not Present                                                  |                |
| Ciphering mode info                                                 | The presence of this IE is dependent on IXIT statements      |                |
|                                                                     | in TS 34.123-2. If ciphering is indicated to be active, this |                |
|                                                                     | IE present with the values of the sub IEs as stated below.   |                |
|                                                                     | Else, this IE is omitted.                                    |                |
| - Ciphering mode command                                            | Start/restart                                                |                |
| - Ciphering algorithm                                               | Use one of the supported ciphering algorithms                |                |
| - Ciphering activation time for DPCH                                | (256+CFN-(CFN MOD 8 + 8))MOD 256                             |                |
| - Radio bearer downlink ciphering activation time                   | Not Present                                                  |                |
| info                                                                | ( (                                                          |                |
| Activation time                                                     | (256+CFN-(CFN MOD 8 + 8))MOD 256                             |                |
| New U-RNTI                                                          | Not Present                                                  |                |
| New C-RNTI                                                          | Not Present                                                  |                |
| New DSCH-RNTI                                                       | Not Present                                                  | ם ב            |
| New H-RNTI                                                          | Not Present                                                  | REL-5          |
| RRC State indicator                                                 | CELL_DCH<br>Not Present                                      |                |
| UTRAN DRX cycle length coefficient CN information info              | Not Present                                                  |                |
|                                                                     | Not Present                                                  |                |
| URA identity                                                        | Not Present                                                  | DEL E          |
| CHOICE specification mode - Complete specification                  | Complete specification                                       | REL-5<br>REL-5 |
| - Signalling RB information to setup                                | Not Present                                                  | KEL-3          |
| - RAB information for setup                                         | Not Flesent                                                  |                |
| - RAB info                                                          |                                                              |                |
| - RAB identity                                                      | 0000 0101B                                                   |                |
| 10 to identity                                                      | The first/ leftmost bit of the bit string contains the most  |                |
|                                                                     | significant bit of the RAB identity.                         |                |
| - CN domain identity                                                | PS domain                                                    |                |
| - NAS Synchronization Indicator                                     | Not Present                                                  |                |
| - Re-establishment timer                                            | UseT314                                                      |                |
| - RB information to setup                                           |                                                              |                |
| - RB identity                                                       | 20                                                           |                |
| - PDCP info                                                         | Not Present                                                  |                |
| - CHOICE RLC info type                                              | RLC info                                                     |                |
| - CHOICE Uplink RLC mode                                            | AM RLC                                                       |                |
| - Transmission RLC discard                                          |                                                              |                |
| - SDU discard mode                                                  | No Discard                                                   |                |
| - MAX_DAT                                                           | 15                                                           |                |
| - Transmission window size                                          | 128                                                          |                |
| - Timer_RST                                                         | 500                                                          |                |
| - Max_RST                                                           | 4                                                            |                |
| - Polling info                                                      |                                                              |                |
| - Timer_poll_prohibit                                               | 200                                                          |                |
| - Timer_poll                                                        | 200                                                          |                |
| - Poll_PDU                                                          | Not Present                                                  |                |
| - Poll_SDU                                                          | 1 TDUE                                                       |                |
| - Last transmission PDU poll                                        | TRUE<br>TRUE                                                 |                |
| <ul><li>Last retransmission PDU poll</li><li>Poll_Windows</li></ul> | 99                                                           |                |
| - Poli_vviridows<br>- Timer_poll_periodic                           | Not Present                                                  |                |
| - Timer_poil_periodic - CHOICE Downlink RLC mode                    | AM RLC                                                       |                |
| - In-sequence delivery                                              | TRUE                                                         |                |
| Receiving window size                                               | 128                                                          |                |
| - Neceiving window size - Downlink RLC status info                  | 120                                                          |                |
|                                                                     | 200                                                          |                |
|                                                                     | 1 500                                                        | 1              |
| <ul><li>- Timer_status_prohibit</li><li>- Timer_EPC</li></ul>       | Not Present                                                  |                |

| Information Element                                                                                      | Value/remark                                                                                       | Version |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------|
| - Timer_STATUS_periodic                                                                                  | Not Present                                                                                        |         |
| - RB mapping info                                                                                        |                                                                                                    |         |
| <ul> <li>Information for each multiplexing option</li> </ul>                                             | 2 RBMuxOptions                                                                                     |         |
| - RLC logical channel mapping indicator                                                                  | Not Present                                                                                        |         |
| - Number of uplink RLC logical channels                                                                  | 1                                                                                                  |         |
| - Uplink transport channel type                                                                          | DCH                                                                                                |         |
| UL Transport channel identity     Logical channel identity                                               | 1 Not Present                                                                                      |         |
| - CHOICE RLC size list                                                                                   | Configured                                                                                         |         |
| - MAC logical channel priority                                                                           | 8                                                                                                  |         |
| - Downlink RLC logical channel info                                                                      |                                                                                                    |         |
| - Number of downlink RLC logical channels                                                                | 1                                                                                                  |         |
| <ul> <li>Downlink transport channel type</li> </ul>                                                      | DCH                                                                                                |         |
| - DL DCH Transport channel identity                                                                      | 6                                                                                                  |         |
| - DL DSCH Transport channel identity                                                                     | Not Present                                                                                        |         |
| - Logical channel identity                                                                               | Not Present                                                                                        |         |
| <ul> <li>RLC logical channel mapping indicator</li> <li>Number of uplink RLC logical channels</li> </ul> | Not Present                                                                                        |         |
| - Uplink transport channel type                                                                          | RACH                                                                                               |         |
| - UL Transport channel identity                                                                          | Not Present                                                                                        |         |
| - Logical channel identity                                                                               | 7                                                                                                  |         |
| - CHOICE RLC size list                                                                                   | Explicit List                                                                                      |         |
| - RLC size index                                                                                         | Reference to TS34.108 clause 6 Parameter Set                                                       |         |
| <ul> <li>MAC logical channel priority</li> </ul>                                                         | 8                                                                                                  |         |
| - Downlink RLC logical channel info                                                                      |                                                                                                    |         |
| - Number of downlink RLC logical channels                                                                | 1                                                                                                  |         |
| - Downlink transport channel type                                                                        | FACH                                                                                               |         |
| <ul> <li>DL DCH Transport channel identity</li> <li>DL DSCH Transport channel identity</li> </ul>        | Not Present Not Present                                                                            |         |
| - Logical channel identity                                                                               | 7                                                                                                  |         |
| RB information to be affected list                                                                       | Not Present                                                                                        |         |
| Downlink counter synchronisation info                                                                    | Not Present                                                                                        |         |
| UL Transport channel information for all transport                                                       |                                                                                                    |         |
| channels                                                                                                 |                                                                                                    |         |
| - PRACH TFCS                                                                                             | Not Present                                                                                        |         |
| - CHOICE mode                                                                                            | TDD                                                                                                |         |
| -Individual UL CCTrCH information<br>- TFCS ID                                                           | (This IE is repeated for TFC number.)                                                              |         |
| - Allowed Transport Format combination                                                                   | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to                                                        |         |
| Allowed Transport Format combination                                                                     | TS34.108 clause 6 Parameter Set.)                                                                  |         |
| - PRACH TFCS                                                                                             | (This IE is repeated for TFC number.)                                                              |         |
| - CHOICE TFCI signalling                                                                                 | Normal                                                                                             |         |
| - TFCI Field 1 information                                                                               |                                                                                                    |         |
| <ul> <li>TFCS complete reconfigure information</li> </ul>                                                |                                                                                                    |         |
| - CHOICE TFCS Size                                                                                       | Number of used bits must be enough to cover                                                        |         |
|                                                                                                          | all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set                  |         |
| - CTFC information                                                                                       | Not Present                                                                                        |         |
| - CHOICE mode                                                                                            | TDD                                                                                                |         |
| - Individual UL CCTrCH information                                                                       | Not Present                                                                                        |         |
| Deleted TrCH information list                                                                            | Not Present                                                                                        |         |
| Added or Reconfigured TrCH information list                                                              |                                                                                                    |         |
| - Added or Reconfigured UL TrCH information                                                              |                                                                                                    |         |
| - Uplink transport channel type                                                                          | DCH                                                                                                |         |
| - UL Transport channel identity - TFS                                                                    | 1                                                                                                  |         |
| - TFS<br>- CHOICE Transport channel type                                                                 | Dedicated transport channels                                                                       |         |
| - Dynamic Transport format information                                                                   | Dogioulog transport originions                                                                     |         |
| - RLC Size                                                                                               | Reference to TS34.108 clause 6.10 Parameter Set                                                    |         |
| - Number of TBs and TTI List                                                                             | (This IE is repeated for TFI number.)                                                              |         |
| - Transmission Time Interval                                                                             | Not Present                                                                                        |         |
| - Number of Transport blocks                                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                                    |         |
| - CHOICE Logical Channel list                                                                            | All                                                                                                |         |
| - Semi-static Transport Format information                                                               | Deference to TOOA 400 slaves 0.40 D                                                                |         |
| - Transmission time interval                                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                                    |         |
| - Type of channel coding<br>- Coding Rate                                                                | Reference to TS34.108 clause 6.10 Parameter Set<br>Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Obumy Nate                                                                                             | INGIGIENCE IO 1007.100 Clause 0.10 Farameter Set                                                   |         |

| Information Element                                                                             | Value/remark                                                      | Version |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------|
| - Rate matching attribute                                                                       | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - CRC size                                                                                      | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| CHOICE mode                                                                                     | TDD (no data)                                                     |         |
| DL Transport channel information common for all                                                 |                                                                   |         |
| transport channel                                                                               | N / P                                                             |         |
| - SCCPCH TFCS                                                                                   | Not Present                                                       |         |
| - CHOICE mode                                                                                   | TDD                                                               |         |
| - Individual DL CCTrCH information                                                              |                                                                   |         |
| - DL TFCS Identity                                                                              |                                                                   |         |
| - TFCS ld                                                                                       | 1                                                                 |         |
| - Shared Channel Indicator                                                                      | FALSE                                                             |         |
| - CHOICE DL parameters                                                                          | Independent                                                       |         |
| - DL DCH TFCS                                                                                   | (This IE is repeated for TFC number.)                             |         |
| <ul> <li>CHOICE TFCI signalling</li> </ul>                                                      | Normal                                                            |         |
| <ul> <li>TFCI Field 1 information</li> </ul>                                                    |                                                                   |         |
| <ul> <li>CHOICE TFCS representation</li> </ul>                                                  | Complete                                                          |         |
| <ul> <li>TFCS complete reconfigure</li> </ul>                                                   |                                                                   |         |
| information                                                                                     |                                                                   |         |
| - CHOICE CTFC Size                                                                              | Refer to TS34.108 clause 6.                                       |         |
| <ul> <li>CTFC information</li> </ul>                                                            | Refer to TS34.108 clause 6.                                       |         |
| Added or Reconfigured TrCH information list                                                     |                                                                   |         |
| <ul> <li>Added or Reconfigured DL TrCH information</li> </ul>                                   |                                                                   |         |
| <ul> <li>Downlink transport channel type</li> </ul>                                             | DCH                                                               |         |
| - DL Transport channel identity                                                                 | 6                                                                 |         |
| - CHOICE DL parameters                                                                          | Explicit                                                          |         |
| - TFS                                                                                           | Dadiente d'anne est els esses le                                  |         |
| <ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul> | Dedicated transport channels (This IE is repeated for TFI number) |         |
| - RLC Size                                                                                      | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - Number of TBs and TTI List                                                                    | (This IE is repeated for TFI number.)                             |         |
| - Transmission Time Interval                                                                    | Not Present                                                       |         |
| - Number of Transport blocks                                                                    | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - CHOICE Logical Channel list                                                                   | ALL                                                               |         |
| - Semi-static Transport Format information                                                      |                                                                   |         |
| - Transmission time interval                                                                    | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| <ul> <li>Type of channel coding</li> </ul>                                                      | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - Coding Rate                                                                                   | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - Rate matching attribute                                                                       | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - CRC size                                                                                      | Reference to TS34.108 clause 6.10 Parameter Set                   |         |
| - DCH quality target                                                                            |                                                                   |         |
| - BLER Quality value<br>Frequency info                                                          | -6.3                                                              |         |
| -CHOICE mode                                                                                    | TDD                                                               |         |
| - UARFCN (Nt)                                                                                   | Reference to clause 5.1 Test frequencies                          |         |
| Maximum allowed UL TX power                                                                     | 30 dBm                                                            |         |
| CHOICE channel requirement                                                                      | Uplink DPCH info                                                  |         |
| - Uplink DPCH power control info                                                                |                                                                   |         |
| - CHOICE mode                                                                                   | TDD                                                               |         |
| - UL Target SIR                                                                                 | Reference to TS34.108 Parameter set.                              |         |
| - CHOICE UL OL PC info                                                                          | Individually signalled                                            |         |
| <ul> <li>CHOICE TDD option</li> </ul>                                                           | 3.84 Mcps                                                         |         |
| <ul> <li>Individual timeslot interference</li> </ul>                                            |                                                                   |         |
| info                                                                                            |                                                                   |         |
| - Individual timeslot interference                                                              |                                                                   |         |
| - DPCH Constant Value                                                                           | Values are used for open loop power control,                      |         |
|                                                                                                 | section 8 in TS 25.331                                            |         |
| - CHOICE mode                                                                                   | TDD                                                               |         |

| Information Element                                               | Value/remark                                            | Version |
|-------------------------------------------------------------------|---------------------------------------------------------|---------|
| - Uplink Timing Advance Control                                   | Not Present                                             |         |
| - UL CCTrCH List                                                  |                                                         |         |
| - TFCS ld                                                         | 1                                                       |         |
| - Time info                                                       |                                                         |         |
| <ul> <li>Activation time</li> </ul>                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                        |         |
| - Duration                                                        | Infinite                                                |         |
| - Common timeslot info                                            |                                                         |         |
| - 2nd interleaving mode                                           | Reference to TS34.108 clause 6.10 Parameter Set         |         |
| - TFCI coding                                                     | Reference to TS34.108 clause 6.10 Parameter Set         |         |
| - Puncturing Limit                                                | Reference to TS34.108 clause 6.10 Parameter Set         |         |
| - Repetition Period                                               | Reference to TS34.108 clause 6.10 Parameter Set         |         |
| - Repetition Length                                               | Reference to TS34.108 clause 6.10 Parameter Set         |         |
| - First individual timeslot info                                  |                                                         |         |
| - Timeslot number                                                 | The number of an uplink timeslot that has               |         |
|                                                                   | unassigned codes.                                       |         |
| - TFCI existence                                                  | TRUE                                                    |         |
| - Midamble shift and burst type                                   | 1102                                                    |         |
| - CHOICE TDD option                                               | 3.84 Mcps                                               |         |
| -CHOICE Burst Type                                                | 3.04 Mops                                               |         |
| -Type 1                                                           |                                                         |         |
| -Midamble Allocation Mode                                         | Default                                                 |         |
|                                                                   | As defined in 3GPP TS 25.221                            |         |
| <ul> <li>Midamble configuration burst<br/>type 1 and 3</li> </ul> | 49 AS AGUILLEA III SOLLE 19 79.75                       |         |
|                                                                   | Deposted (1.2) for each channelingtion code assigned in |         |
| - First timeslot channelisation codes                             | Repeated (1,2) for each channelisation code assigned in |         |
|                                                                   | the slot to meet the needs of TS34.108 clause 6         |         |
|                                                                   | Parameter Set.                                          |         |
| - Channelisation code                                             | (i/SF) where i denotes an unassigned code               |         |
|                                                                   | matching the SF specified in TS34.108 clause            |         |
| 0110105                                                           | 6 Parameter Set.                                        |         |
| - CHOICE more timeslots                                           | The presence of this IE depends upon the                |         |
|                                                                   | number of resources specified in TS34.108               |         |
|                                                                   | section 6 and the number of slots in which they         |         |
|                                                                   | are being assigned.                                     |         |
| Downlink HS-PDSCH Information                                     | Not Present                                             | REL-5   |
| Downlink information common for all radio links                   |                                                         |         |
| <ul> <li>Downlink DPCH info common for all RL</li> </ul>          |                                                         |         |
| - Timing indication                                               | Maintain                                                |         |
| <ul> <li>CFN-targetSFN frame offset</li> </ul>                    | Not Present                                             |         |
| <ul> <li>Downlink DPCH power control information</li> </ul>       |                                                         |         |
| - DPC mode                                                        | 0 (single)                                              |         |
| - CHOICE mode                                                     | TDD                                                     |         |
| - CHOICE TDD option                                               | 3.84 Mcps (no data)                                     |         |
| - Default DPCH Offset Value                                       | Not Present                                             |         |
| Downlink information for each radio link list                     |                                                         |         |
| - Downlink information for each radio link                        |                                                         |         |
| - Choice mode                                                     | TDD                                                     |         |
| - Primary CCPCH info                                              |                                                         |         |
| - CHOICE SyncCase                                                 | Sync Case 1                                             |         |
| - Timeslot                                                        | PCCPCH timeslot                                         |         |
| - Cell parameters ID                                              | 0                                                       |         |
| - SCTD indicator                                                  |                                                         |         |
| - Downlink DPCH info for each RL                                  |                                                         |         |
| - CHOICE mode                                                     | TDD                                                     |         |
| - DL CCTrCH List                                                  | 1.55                                                    |         |
| - TFCS ID                                                         | 1                                                       |         |
| - Time info                                                       |                                                         |         |
| - Activation time                                                 | (256+CFN-(CFN mod 8 + 8))mod 256                        |         |
| - Duration                                                        | infinite                                                | 1       |
| - Duration - Common timeslot info                                 | mining.                                                 |         |
|                                                                   | Reference to TS34.108                                   |         |
| - 2nd interleaving mode                                           |                                                         |         |
| - TFCI coding                                                     | TRUE                                                    |         |
| - Puncturing limit                                                | Reference to TS34.108 clause 6 Parameter set            |         |
| - Repetition period                                               | 1                                                       |         |
| - Repetition length                                               | Empty                                                   |         |
|                                                                   |                                                         |         |
| <ul> <li>Downlink DPCH timeslots and codes</li> </ul>             |                                                         |         |
|                                                                   | The number of a downlink timeslot that has              |         |

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| Information Element                                     | Value/remark                                   | Version |
|---------------------------------------------------------|------------------------------------------------|---------|
|                                                         | unassigned codes.                              |         |
| - TFCI existence                                        | TRUE                                           |         |
| <ul> <li>Midamble shift and burst type</li> </ul>       |                                                |         |
| - CHOICE TDD option                                     | 3.84 Mcps                                      |         |
| -CHOICE Burst Type                                      |                                                |         |
| -Type 1                                                 |                                                |         |
| -Midamble Allocation Mode                               | Default                                        |         |
| - Midamble configuration burst                          | As defined in 3GPP TS 25.221                   |         |
| type 1 and 3                                            |                                                |         |
| <ul> <li>First timeslot channelisation codes</li> </ul> |                                                |         |
| - First channelisation code                             | (i/SF) where i is the lowest numbered code     |         |
|                                                         | that is being assigned and SF is specified in  |         |
|                                                         | TS34.108 clause 6 Parameter Set                |         |
| - Last channelisation code                              | (j/SF) where j is the highest numbered code    |         |
|                                                         | that is being assigned in the slot.            |         |
| - Bitmap                                                | Bitmap of the codes that are being assigned in |         |
|                                                         | the slot.                                      |         |
| - CHOICE more timeslots                                 | The presence of this IE depends upon whether   |         |
| CITOTOL MOTO LIMOSIOLO                                  | the requirements of TS34.108 clause 6          |         |
|                                                         | Parameter Set could be met by the codes that   |         |
|                                                         | have been assigned in the first timeslot       |         |
|                                                         | nave been designed in the mot unested          |         |
| - UL CCTrCH TPC List                                    | Not Present                                    |         |
| -SCCPCH information for FACH                            | Not Present                                    |         |
|                                                         | 1                                              |         |

## Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

| Information Element                             | Condition                  | Value/remark                                    | Version |
|-------------------------------------------------|----------------------------|-------------------------------------------------|---------|
| Message Type                                    | A1, A2, A3,                |                                                 |         |
|                                                 | A4, A5, A6,                |                                                 |         |
|                                                 | A7, A8                     |                                                 |         |
| RRC transaction identifier                      |                            | Arbitrarily selects an integer between          |         |
|                                                 |                            | 0 and 3                                         |         |
| Integrity check info                            |                            |                                                 |         |
| <ul> <li>message authentication code</li> </ul> |                            | SS calculates the value of MAC-I for            |         |
|                                                 |                            | this message and writes to this IE.             |         |
|                                                 |                            | The first/ leftmost bit of the bit string       |         |
|                                                 |                            | contains the most significant bit of the MAC-I. |         |
| - RRC message sequence number                   |                            | SS provides the value of this IE, from          |         |
| - Kito message sequence number                  |                            | its internal counter.                           |         |
| Integrity protection mode info                  |                            | Not Present                                     |         |
| Ciphering mode info                             |                            | Not Present                                     |         |
| Activation time                                 | A1, A2, A3,                | (256+CFN-(CFN MOD 8 + 8))MOD                    |         |
|                                                 | A7, A8                     | 256                                             |         |
| Activation time                                 | A4, A5, A6                 | Now                                             |         |
| New U-RNTI                                      | A1, A2, A3,                | Not Present                                     |         |
|                                                 | A4, A5, A6,                |                                                 |         |
|                                                 | A7, A8                     |                                                 |         |
| New C-RNTI                                      | A1, A2, A3,                | Not Present                                     |         |
|                                                 | A4, A7, A8                 |                                                 |         |
| New C-RNTI                                      | A5, A6                     | '1010 1010 1010 1010'                           |         |
| New DSCH-RNTI                                   | A1, A2, A3,                | Not Present                                     |         |
|                                                 | A4, A5, A6,                |                                                 |         |
| New H-RNTI                                      | A7, A8                     | Not Dresent                                     | DEL C   |
|                                                 | A4 A0 A0                   | Not Present                                     | REL-5   |
| RRC State indicator                             | A1, A2, A3,                | CELL_DCH                                        |         |
| RRC State indicator                             | A4, A7, A8<br>A5, A6       | CELL FACH                                       |         |
| UTRAN DRX cycle length coefficient              | A3, A6<br>A1, A2, A3,      | Not Present                                     |         |
| O TIAN DIA Cycle length coefficient             | A1, A2, A3,<br>A4, A5, A6, | INOUTIESCH                                      |         |
|                                                 | A7, A8                     |                                                 |         |
|                                                 | /\/, \/\                   | 1                                               |         |

| Information Element                                                                      | Condition | Value/remark                                         | Version |
|------------------------------------------------------------------------------------------|-----------|------------------------------------------------------|---------|
| CN information info                                                                      |           | Not Present                                          |         |
| URA identity                                                                             |           | Not Present                                          |         |
| CHOICE specification mode                                                                |           | Complete specification                               | REL-5   |
| - Complete specification                                                                 |           | N (B                                                 | REL-5   |
| - Signalling RB information to setup list                                                | A4 A7     | Not Present                                          |         |
| - RAB information for setup list                                                         | A1, A7    |                                                      |         |
| - RAB info - RAB identity                                                                |           |                                                      |         |
| - CHOICE RAB identity type                                                               |           | RAB identity (GSM-MAP)                               |         |
| - RAB identity                                                                           |           | 0000 0001B                                           |         |
| ·                                                                                        |           | The first/ leftmost bit of the bit string            |         |
|                                                                                          |           | contains the most significant bit of the             |         |
| 011                                                                                      |           | RAB identity.                                        |         |
| - CN domain identity                                                                     |           | CS domain                                            |         |
| - NAS Synchronization Indicator - Re-establishment timer                                 |           | Not Present useT314                                  |         |
| - RB information to setup list                                                           |           | userora                                              |         |
| - RB information to setup                                                                |           |                                                      |         |
| - RB identity                                                                            |           | 10                                                   |         |
| - PDCP info                                                                              |           | Not Present                                          |         |
| - CHOICE RLC info type                                                                   |           | RLC info                                             |         |
| - CHOICE Uplink RLC mode                                                                 |           | TM RLC                                               |         |
| - Transmission RLC discard - Segmentation indication                                     |           | Not Present<br>FALSE                                 |         |
| - CHOICE Downlink RLC mode                                                               |           | TM RLC                                               |         |
| - Segmentation indication                                                                |           | FALSE                                                |         |
| - RB mapping info                                                                        |           |                                                      |         |
| <ul> <li>Information for each multiplexing option</li> </ul>                             |           |                                                      |         |
| - RLC logical channel mapping indicator                                                  |           | Not Present                                          |         |
| - Number of uplink RLC logical channels                                                  |           | 1                                                    |         |
| <ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul> |           | DCH<br>1                                             |         |
| - Logical channel identity                                                               |           | Not Present                                          |         |
| - CHOICE RLC size list                                                                   |           | Configured                                           |         |
| - MAC logical channel priority                                                           |           | 8                                                    |         |
| - Downlink RLC logical channel info                                                      |           |                                                      |         |
| - Number of downlink RLC logical channels                                                |           | 1                                                    |         |
| Downlink transport channel type     DL DCH Transport channel identity                    |           | DCH<br>6                                             |         |
| - DL DSCH Transport channel identity - DL DSCH Transport channel identity                |           | Not Present                                          |         |
| - Logical channel identity                                                               |           | Not Present                                          |         |
| RAB information to setup list                                                            | A2, A8    |                                                      |         |
| - RAB info                                                                               | ·         |                                                      |         |
| - RAB identity                                                                           |           |                                                      |         |
| - CHOICE RAB identity type                                                               |           | RAB identity (GSM-MAP)                               |         |
| - RAB identity                                                                           |           | 0000 0001B The first/ leftmost bit of the bit string |         |
|                                                                                          |           | contains the most significant bit of the             |         |
|                                                                                          |           | RAB identity.                                        |         |
| - CN domain identity                                                                     |           | CS domain                                            |         |
| - NAS Synchronization Indicator                                                          |           | Not Present                                          |         |
| - Re-establishment timer                                                                 |           | useT314                                              |         |
| - RB information to setup list                                                           |           |                                                      |         |
| - RB information to setup - RB identity                                                  |           | 10                                                   |         |
| - PDCP info                                                                              |           | Not Present                                          |         |
| - CHOICE RLC info type                                                                   |           | RLC info                                             |         |
| - CHOICE Uplink RLC mode                                                                 |           | TM RLC                                               |         |
| - Transmission RLC discard                                                               |           | Not Present                                          |         |
| - Segmentation indication                                                                |           | FALSE                                                |         |
| - CHOICE Downlink RLC mode                                                               |           | TM RLC                                               |         |
| - Segmentation indication - RB mapping info                                              |           | FALSE                                                |         |
| - Information for each multiplexing option                                               |           |                                                      |         |
| - RLC logical channel mapping indicator                                                  |           | Not Present                                          |         |
| - Number of uplink RLC logical channels                                                  |           | 1                                                    |         |
| - Uplink transport channel type                                                          |           | DCH                                                  |         |

| Information Element                                                           | Condition   | Value/remark                              | Version      |
|-------------------------------------------------------------------------------|-------------|-------------------------------------------|--------------|
| - UL Transport channel identity                                               | - Jonation  | 1                                         | . 5. 5. 5. 1 |
| - Logical channel identity                                                    |             | Not Present                               |              |
| - CHOICE <i>RLC</i> size list                                                 |             | Configured                                |              |
| - MAC logical channel priority                                                |             | 6                                         |              |
| - Downlink RLC logical channel info                                           |             |                                           |              |
| - Number of downlink RLC logical channels                                     |             | 1                                         |              |
| - Downlink transport channel type                                             |             | DCH                                       |              |
| - DL DCH Transport channel identity                                           |             | 6                                         |              |
| - DL DSCH Transport channel identity                                          |             | Not Present                               |              |
| <ul> <li>Logical channel identity</li> </ul>                                  |             | Not Present                               |              |
| - RB identity                                                                 |             | 11                                        |              |
| - PDCP info                                                                   |             | Not Present                               |              |
| - CHOICE RLC info type                                                        |             | RLC info                                  |              |
| - CHOICE Uplink RLC mode                                                      |             | TM RLC                                    |              |
| - Transmission RLC discard                                                    |             | Not Present                               |              |
| - Segmentation indication                                                     |             | FALSE                                     |              |
| - CHOICE Downlink RLC mode                                                    |             | TM RLC                                    |              |
| - Segmentation indication                                                     |             | FALSE                                     |              |
| - RB mapping info                                                             |             |                                           |              |
| - Information for each multiplexing option                                    |             |                                           |              |
| - RLC logical channel mapping indicator                                       |             | Not Present                               |              |
| - Number of uplink RLC logical channels                                       |             | 1                                         |              |
| - Uplink transport channel type                                               |             | DCH                                       |              |
| - UL Transport channel identity                                               |             | 2<br>Not Dropont                          |              |
| - Logical channel identity                                                    |             | Not Present                               |              |
| - CHOICE RLC size list                                                        |             | Configured                                |              |
| - MAC logical channel priority                                                |             | 6                                         |              |
| Downlink RLC logical channel info     Number of downlink RLC logical channels |             | 1                                         |              |
| - Downlink transport channel type                                             |             | DCH                                       |              |
| - DCH Transport channel identity                                              |             | 7                                         |              |
| - DL DSCH Transport channel identity                                          |             | Not Present                               |              |
| - Logical channel identity                                                    |             | Not Present                               |              |
| - RB identity                                                                 |             | 12                                        |              |
| - PDCP info                                                                   |             | Not Present                               |              |
| - CHOICE RLC info type                                                        |             | RLC info                                  |              |
| - CHOICE Uplink RLC mode                                                      |             | TM RLC                                    |              |
| - Transmission RLC discard                                                    |             | Not Present                               |              |
| - Segmentation indication                                                     |             | FALSE                                     |              |
| - CHOICE Downlink RLC mode                                                    |             | TM RLC                                    |              |
| - Segmentation indication                                                     |             | FALSE                                     |              |
| - RB mapping info                                                             |             |                                           |              |
| - Information for each multiplexing option                                    |             |                                           |              |
| - RLC logical channel mapping indicator                                       |             | Not Present                               |              |
| - Number of uplink RLC logical channels                                       |             | 1                                         |              |
| - Uplink transport channel type                                               |             | DCH                                       |              |
| - UL Transport channel identity                                               |             | 3                                         |              |
| <ul> <li>Logical channel identity</li> </ul>                                  |             | Not Present                               |              |
| - CHOICE RLC size list                                                        |             | Configured                                |              |
| - MAC logical channel priority                                                |             | 7                                         |              |
| - Downlink RLC logical channel info                                           |             |                                           |              |
| <ul> <li>Number of downlink RLC logical channels</li> </ul>                   |             | 1                                         |              |
| - Downlink transport channel type                                             |             | DCH                                       |              |
| - DL DCH Transport channel identity                                           |             | 8                                         |              |
| - DL DSCH Transport channel identity                                          |             | Not Present                               |              |
| - Logical channel identity                                                    | 10000       | Not Present                               |              |
| RAB information for setup list                                                | A3, A4, A5, |                                           |              |
| DAD: (                                                                        | A6          |                                           |              |
| - RAB info                                                                    |             |                                           |              |
| - RAB identity                                                                |             | DAD identity (COMARAGE)                   |              |
| - CHOICE RAB identity type                                                    |             | RAB identity (GSM-MAP)                    |              |
| - RAB identity                                                                |             | 0000 0101B                                |              |
|                                                                               |             | The first/ leftmost bit of the bit string |              |
|                                                                               |             | contains the most significant bit of the  |              |
| - CN domain identity                                                          |             | RAB identity. PS domain                   |              |
| - CN domain identity                                                          |             |                                           |              |
| - NAS Synchronization Indicator                                               |             | Not Present                               |              |

| Information Element                                          | Condition | Value/remark                   | Version |
|--------------------------------------------------------------|-----------|--------------------------------|---------|
| - Re-establishment timer                                     |           | useT315                        |         |
| - RB information to setup list                               |           |                                |         |
| - RB information to setup                                    |           |                                |         |
| - RB identity                                                |           | 20                             |         |
| - PDCP info                                                  |           | FALOE                          |         |
| - Support for lossless SRNS relocation                       |           | FALSE                          |         |
| - Max PDCP SN window size                                    |           | Not present                    |         |
| - PDCP PDU header                                            |           | Not present                    |         |
| - Header compression information                             |           | Not present<br>RLC info        |         |
| - CHOICE RLC info type - CHOICE Uplink RLC mode              |           | AM RLC                         |         |
| - Transmission RLC discard                                   |           | AIVI RLC                       |         |
| - CHOICE SDU Discard Mode                                    |           | Max DAT retransmissions        |         |
| - MAX_DAT                                                    |           | 4                              |         |
| - Timer_MRW                                                  |           | 100                            |         |
| - MaxMRW                                                     |           | 4                              |         |
| - Transmission window size                                   |           | 128                            |         |
| - Timer_RST                                                  |           | 500                            |         |
| - Max_RST                                                    |           | 4                              |         |
| - Polling info                                               |           |                                |         |
| - Timer_poll_prohibit                                        |           | 200                            |         |
| - Timer_poll                                                 |           | 200                            |         |
| - Poll_PDU                                                   |           | Not Present                    |         |
| - Poll_SDU                                                   |           | 1                              |         |
| - Last transmission PDU poll                                 |           | TRUE                           |         |
| - Last retransmission PDU poll                               |           | TRUE                           |         |
| - Poll_Windows                                               |           | 99                             |         |
| - Timer_poll_periodic                                        |           | Not Present                    |         |
| - CHOICE Downlink RLC mode                                   |           | AM RLC                         |         |
| - In-sequence delivery                                       |           | TRUE                           |         |
| - Receiving window size                                      |           | 128                            |         |
| - Downlink RLC status info                                   |           |                                |         |
| <ul><li>- Timer_status_prohibit</li></ul>                    |           | 200                            |         |
| - Timer_EPC                                                  |           | 200                            |         |
| <ul> <li>Missing PDU indicator</li> </ul>                    |           | TRUE                           |         |
| <ul> <li>Timer_STATUS_periodic</li> </ul>                    |           | Not Present                    |         |
| - RB mapping info                                            |           |                                |         |
| <ul> <li>Information for each multiplexing option</li> </ul> |           | 2 RBMuxOptions                 |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    |           | Not Present                    |         |
| <ul> <li>Number of uplink RLC logical channels</li> </ul>    |           | 1                              |         |
| <ul> <li>Uplink transport channel type</li> </ul>            |           | DCH                            |         |
| - UL Transport channel identity                              |           | 1                              |         |
| - Logical channel identity                                   |           | Not Present                    |         |
| - CHOICE RLC size list                                       |           | Configured                     |         |
| - MAC logical channel priority                               |           | 8                              |         |
| - Downlink RLC logical channel info                          |           |                                |         |
| - Number of downlink RLC logical channels                    |           | 1                              |         |
| - Downlink transport channel type                            |           | DCH                            |         |
| - DL DCH Transport channel identity                          |           | 6<br>Not Droppet               |         |
| - DL DSCH Transport channel identity                         |           | Not Present                    |         |
| - Logical channel identity                                   |           | Not Present                    |         |
| - RLC logical channel mapping indicator                      |           | Not Present                    |         |
| - Number of uplink RLC logical channels                      |           | 1<br>DACH                      |         |
| - Uplink transport channel type                              |           | RACH                           |         |
| - UL Transport channel identity                              |           | Not Present                    |         |
| - Logical channel identity                                   |           | 7<br>Evaliait list             |         |
| - CHOICE RLC size list                                       |           | Explicit list                  |         |
| - RLC size index                                             |           | Reference to TS34.108 clause 6 |         |
| MAC logical shannel priority                                 |           | Parameter Set                  |         |
| - MAC logical channel priority                               |           | 8                              |         |
| - Downlink RLC logical channel info                          |           | 1                              |         |
| - Number of downlink RLC logical channels                    |           | 1                              |         |
| - Downlink transport channel type                            |           | FACH<br>Not Procent            |         |
| - DL DCH Transport channel identity                          |           | Not Present                    |         |
| - DL DSCH Transport channel identity                         |           | Not Present                    |         |
| <ul> <li>Logical channel identity</li> </ul>                 | 1         | 8                              | _1      |

| Information Element                             | Condition   | Value/remark                          | Version |
|-------------------------------------------------|-------------|---------------------------------------|---------|
|                                                 | A4, A5, A6, |                                       |         |
|                                                 | A7, A8      |                                       |         |
| Downlink counter synchronisation info           | A1, A2, A3, | Not Present                           |         |
| John Million Syriam of Module 11 mile           | A4, A5, A6, |                                       |         |
|                                                 | A7, A8      |                                       |         |
| UL Transport channel information common for all | A1, A2, A3, |                                       |         |
|                                                 |             |                                       |         |
| transport channels                              | A4, A5, A6, |                                       |         |
|                                                 | A7, A8      | –                                     |         |
| - PRACH TFCS                                    |             | Not Present                           |         |
| - CHOICE mode                                   |             | TDD                                   |         |
| - Individual UL CCTrCH information              |             |                                       |         |
| - UL TFCS Identity                              |             |                                       |         |
| - TFCS ID                                       |             | 1                                     |         |
| - Shared Channel Indicator                      |             | FALSE                                 |         |
| - UL TFCS                                       |             |                                       |         |
| - CHOICE TFCI signalling                        |             | Normal                                |         |
| - TFCI Field 1 Information                      |             |                                       |         |
| - CHOICE TFCS representation                    |             | Complete reconfiguration              |         |
| - TFCS complete reconfiguration information     |             | Complete reconliguration              |         |
| - CHOICE CTFC Size                              |             | Number of hits used must be enough    |         |
| - CHOICE CIPC Size                              |             | Number of bits used must be enough    |         |
|                                                 |             | to cover all combinations of CTFC     |         |
|                                                 |             | from TS34.108 clause 6.11.5.4         |         |
| <b></b>                                         |             | Parameter Set.                        |         |
| - CTFC information                              |             | This IE is repeated for TFC numbers   |         |
|                                                 |             | and reference to TS34.108 clause      |         |
|                                                 |             | 6.11.5.4 Parameter Set                |         |
| - CTFC                                          |             | Reference to TS34.108 clause          |         |
|                                                 |             | 6.11.5.4 Parameter Set                |         |
| - Power offset information                      |             |                                       |         |
| - CHOICE Gain Factors                           |             | Computed Gain Factors(The last TFC    |         |
| GITOTOL Gamir addolo                            |             | is set to Signalled Gain Factors)     |         |
| - Reference TFC ID                              |             | 0 Integer(0 3)                        |         |
| - CHOICE Gain Factors                           |             | Signalled Gain Factors(Not Present if |         |
| - CHOICE Gaill Factors                          |             |                                       |         |
|                                                 |             | the CHOICE Gain Factors is set to     |         |
| 0.10.0                                          |             | ComputedGain Factors)                 |         |
| - CHOICE mode                                   |             | TDD                                   |         |
| - Gain Factor $oldsymbol{eta_d}$                |             | 15                                    |         |
| - Reference TFC ID                              |             | 0 Integer(0 3)                        |         |
| - CHOICE mode                                   |             | TDD                                   |         |
| - TFC subset                                    |             |                                       |         |
| - CHOICE Subset representation                  |             | Full transport format combination set |         |
| - TFC subset list                               |             | Not Present                           |         |
| Deleted TrCH information list                   | A1, A2, A3, | Not Present                           |         |
| Bolotod Hoff Information list                   | A4, A5, A6, | 140t i 1606iit                        |         |
|                                                 | A7, A8      |                                       |         |
| Added or Decentiqueed III. TrCH information     |             | 1 DCH added 1 DCH reconfigured        |         |
| Added or Reconfigured UL TrCH information       | A1, A3 A4,  | 1 DCH added, 1 DCH reconfigured       |         |
| A 1 1 1 D (* 119 ± 011 1 1 1                    | A5, A6, A7  |                                       |         |
| - Added or Reconfigured UL TrCH information     |             |                                       |         |
| - Uplink transport channel type                 |             | DCH                                   |         |
| - UL Transport channel identity                 |             | 5                                     |         |
| - TFS                                           | 1           |                                       |         |
| - CHOICE Transport channel type                 |             | Dedicated transport channels          |         |
| - Dynamic Transport format information          |             | ·                                     |         |
| - RLC Size                                      |             | Reference to TS34.108 clause 6.11     |         |
|                                                 | 1           | Parameter Set                         |         |
| - Number of TBs and TTI List                    | 1 to maxTF  | (This IE is repeated for TF number.)  |         |
| - Transmission Time Interval                    |             | Not Present                           |         |
| - Number of Transport blocks                    |             | Reference to TS34.108 clause 6.11     |         |
| - Number of Fransport blocks                    | 1           |                                       |         |
| CHOICE Logical Channel list                     | 1           | Parameter Set                         |         |
| - CHOICE Logical Channel list                   |             | All                                   |         |
| - Semi-static Transport Format information      |             | <b>D</b>                              |         |
| - Transmission time interval                    |             | Reference to TS34.108 clause 6.11     |         |
|                                                 | 1           | Parameter Set                         |         |
| <ul> <li>Type of channel coding</li> </ul>      |             | Reference to TS34.108 clause 6.11     |         |
|                                                 |             | Parameter Set                         |         |
| - Coding Rate                                   |             | Reference to TS34.108 clause 6.11     |         |
|                                                 |             |                                       |         |
| Journa Nate                                     |             | Parameter Set                         |         |

| Information Element                                                        | Condition  | Value/remark                                      | Version |
|----------------------------------------------------------------------------|------------|---------------------------------------------------|---------|
| - Rate matching attribute                                                  |            | Reference to TS34.108 clause 6.11                 |         |
| 000                                                                        |            | Parameter Set                                     |         |
| - CRC size                                                                 |            | Reference to TS34.108 clause 6.11 Parameter Set   |         |
| - Uplink transport channel type                                            |            | DCH                                               |         |
| - UL Transport channel identity                                            |            | 1                                                 |         |
| - TFS                                                                      |            |                                                   |         |
| - CHOICE Transport channel type     - Dynamic Transport format information |            | Dedicated transport channels                      |         |
| - RLC Size                                                                 |            | Reference to TS34.108 clause 6.11                 |         |
|                                                                            |            | Parameter Set                                     |         |
| Number of TBs and TTI List     Transmission Time Interval                  | 1 to maxTF | (This IE is repeated for TF number.)  Not Present |         |
| - Number of Transport blocks                                               |            | Reference to TS34.108 clause 6.11                 |         |
| Transfer of Transport Stocks                                               |            | Parameter Set                                     |         |
| - CHOICE Logical Channel list                                              |            | All                                               |         |
| Semi-static Transport Format information     Transmission time interval    |            | Reference to TS34.108 clause 6.11                 |         |
| - Hansinission time interval                                               |            | Parameter Set                                     |         |
| - Type of channel coding                                                   |            | Reference to TS34.108 clause 6.11                 |         |
|                                                                            |            | Parameter Set                                     |         |
| - Coding Rate                                                              |            | Reference to TS34.108 clause 6.11 Parameter Set   |         |
| - Rate matching attribute                                                  |            | Reference to TS34.108 clause 6.11                 |         |
| -                                                                          |            | Parameter Set                                     |         |
| - CRC size                                                                 |            | Reference to TS34.108 clause 6.11                 |         |
| Added or Reconfigured TrCH information list                                | A2, A8     | Parameter Set 4 TrCHs(DCH for DCCH and 3DCHs      |         |
| 7 Added of Resemingared Treff information list                             | 712,710    | for DTCH)                                         |         |
| - Added or Reconfigured UL TrCH information                                |            |                                                   |         |
| - Uplink transport channel type - UL Transport channel identity            |            | DCH<br>5                                          |         |
| - TFS                                                                      |            |                                                   |         |
| - CHOICE Transport channel type                                            |            | Dedicated transport channels                      |         |
| - Dynamic Transport format information                                     |            | Deference to TS24 400 elevers C 44                |         |
| - RLC Size                                                                 |            | Reference to TS34.108 clause 6.11 Parameter Set   |         |
| - Number of TBs and TTI List                                               | 1 to maxTF | (This IE is repeated for TF number.)              |         |
| - Transmission Time Interval                                               |            | Not Present                                       |         |
| - Number of Transport blocks                                               |            | Reference to TS34.108 clause 6.11 Parameter Set   |         |
| - CHOICE Logical Channel list                                              |            | All                                               |         |
| - Semi-static Transport Format information                                 |            |                                                   |         |
| - Transmission time interval                                               |            | Reference to TS34.108 clause 6.11                 |         |
| - Type of channel coding                                                   |            | Parameter Set Reference to TS34.108 clause 6.11   |         |
| Type or onarmor county                                                     |            | Parameter Set                                     |         |
| - Coding Rate                                                              |            | Reference to TS34.108 clause 6.11                 |         |
| - Rate matching attribute                                                  |            | Parameter Set Reference to TS34.108 clause 6.11   |         |
| rate matering attribute                                                    |            | Parameter Set                                     |         |
| - CRC size                                                                 |            | Reference to TS34.108 clause 6.11                 |         |
| Unlink transport shannel type                                              |            | Parameter Set                                     |         |
| - Uplink transport channel type - UL Transport channel identity            |            | DCH<br>1                                          |         |
| - TFS                                                                      |            |                                                   |         |
| - CHOICE Transport channel type                                            |            | Dedicated transport channels                      |         |
| Dynamic Transport format information     RLC Size                          |            | Reference to TS34.108 clause 6.11                 |         |
| NEO 0120                                                                   |            | Parameter Set                                     |         |
| - Number of TBs and TTI List                                               | 1 to maxTF | (This IE is repeated for TF number.)              |         |
| - Transmission Time Interval                                               |            | Not Present<br>Reference to TS34.108 clause 6.11  |         |
| - Number of Transport blocks                                               |            | Parameter Set                                     |         |
| - CHOICE Logical Channel list                                              |            | All                                               |         |
| - Semi-static Transport Format information                                 |            | Defended to TOO 1 100 1                           |         |
| - Transmission time interval                                               | 1          | Reference to TS34.108 clause 6.11                 |         |

| Information Element                                                                                     | Condition   | Value/remark                                       | Version |
|---------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|---------|
| - Type of channel coding                                                                                |             | Parameter Set Reference to TS34.108 clause 6.11    |         |
| Type of charmer county                                                                                  |             | Parameter Set                                      |         |
| - Coding Rate                                                                                           |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - Rate matching attribute                                                                               |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - CRC size                                                                                              |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| <ul><li>- Uplink transport channel type</li><li>- UL Transport channel identity</li><li>- TFS</li></ul> |             | DCH<br>2                                           |         |
| - CHOICE Transport channel type     - Dynamic Transport format information                              |             | Dedicated transport channels                       |         |
| - RLC Size                                                                                              |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - Number of TBs and TTI List                                                                            | 1 to maxTF  | (This IE is repeated for TF number.)               |         |
| <ul><li>Transmission Time Interval</li><li>Number of Transport blocks</li></ul>                         |             | Not Present<br>Reference to TS34.108 clause 6.11   |         |
| - Number of Transport blocks                                                                            |             | Parameter Set                                      |         |
| - CHOICE Logical Channel list                                                                           |             | All                                                |         |
| <ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>        |             | Reference to TS34.108 clause 6.11                  |         |
| - Type of channel coding                                                                                |             | Parameter Set<br>Reference to TS34.108 clause 6.11 |         |
| - Type of channel coding                                                                                |             | Parameter Set                                      |         |
| - Coding Rate                                                                                           |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - Rate matching attribute                                                                               |             | Reference to TS34.108 clause 6.11                  |         |
| - CRC size                                                                                              |             | Parameter Set Reference to TS34.108 clause 6.11    |         |
| - Uplink transport channel type                                                                         |             | Parameter Set<br>DCH                               |         |
| - UL Transport channel identity                                                                         |             | 3                                                  |         |
| - TFS - CHOICE Transport channel type                                                                   |             | Dedicated transport channels                       |         |
| - Dynamic Transport format information                                                                  |             | ·                                                  |         |
| - RLC Size                                                                                              |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - Number of TBs and TTI List                                                                            | 1 to maxTF  | (This IE is repeated for TF number.)               |         |
| <ul><li>Transmission Time Interval</li><li>Number of Transport blocks</li></ul>                         |             | Not Present<br>Reference to TS34.108 clause 6.11   |         |
| - Number of Transport blocks                                                                            |             | Parameter Set                                      |         |
| - CHOICE Logical Channel list                                                                           |             | All                                                |         |
| <ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>        |             | Reference to TS34.108 clause 6.11                  |         |
| - Type of channel coding                                                                                |             | Parameter Set<br>Reference to TS34.108 clause 6.11 |         |
| - Coding Rate                                                                                           |             | Parameter Set Reference to TS34.108 clause 6.11    |         |
|                                                                                                         |             | Parameter Set                                      |         |
| - Rate matching attribute                                                                               |             | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - CRC size                                                                                              |             | Reference to TS34.108 clause 6.11                  |         |
| CHOICE mode                                                                                             |             | Parameter Set<br>TDD (no data)                     |         |
| DL Transport channel information common for all                                                         | A1, A2, A7, | - ( 5:5)                                           |         |
| transport channel - SCCPCH TFCS                                                                         | A8          | Not Present                                        |         |
| - SCCPCH TPCS<br>- CHOICE mode                                                                          |             | TDD                                                |         |
| - Individual DL CCTrCH information                                                                      |             | _                                                  |         |
| - DL TFCS Identity                                                                                      |             | 2                                                  |         |
| - TFCS ID<br>- Shared Channel Indicator                                                                 |             | 2<br>FALSE                                         |         |
| - CHOICE DL parameters                                                                                  |             | SameAsUL                                           |         |
| - UL DCH TFCS Identity                                                                                  |             |                                                    |         |
| - TFCS ID                                                                                               |             | 1                                                  |         |

| Information Element                                    | Condition   | Value/remark                                    | Version |
|--------------------------------------------------------|-------------|-------------------------------------------------|---------|
| - Shared Channel Indicator                             | 55          | FALSE                                           |         |
| DL Transport channel information common for all        | A3, A4, A5, | -                                               |         |
| transport channel                                      | A6          |                                                 |         |
| - SCCPCH TFCS                                          |             | Not Present                                     |         |
| - CHOICE mode                                          |             | TDD                                             |         |
| - Individual DL CCTrCH information                     |             |                                                 |         |
| - DL TFCS Identity                                     |             |                                                 |         |
| - TFCS ID<br>- Shared Channel Indicator                |             | 2<br>  FALSE                                    |         |
| - CHOICE DL parameters                                 |             | Independent                                     |         |
| - DL TFCS                                              |             | macpenaem                                       |         |
| - CHOICE TFCI Signalling                               |             | Normal                                          |         |
| - TFCI Field 1 Information                             |             |                                                 |         |
| - CHOICE TFCS representation                           |             | Complete reconfiguration                        |         |
| - TFCS complete reconfiguration information            |             |                                                 |         |
| - CHOICE CTFC Size                                     |             | Number of bits used must be enough              |         |
|                                                        |             | to cover all combinations of CTFC               |         |
|                                                        |             | from clause TS34.108 clause 6.11.5.4            |         |
|                                                        |             | Parameter Set.                                  |         |
| - CTFC information                                     |             | This IE is repeated for TFC numbers             |         |
|                                                        |             | and reference to TS34.108 clause                |         |
| CTEC                                                   |             | 6.11.5.4<br>Reference to TS34.108 clause        |         |
| - CTFC                                                 |             | 6.11.5.4 Parameter Set                          |         |
| - Power offset information                             |             | Not Present                                     |         |
| Deleted TrCH information list                          | A1, A2, A3, | Not Present                                     |         |
| Deleted Troff information list                         | A4, A5, A6, | Not riesent                                     |         |
|                                                        | A7, A8      |                                                 |         |
| Added or Reconfigured TrCH information list            | A1          | 1 DCH added, 1 DCH reconfigured                 |         |
| - Added or Reconfigured DL TrCH information            |             | ,                                               |         |
| - Downlink transport channel type                      |             | DCH                                             |         |
| - DL Transport channel identity                        |             | 10                                              |         |
| - CHOICE DL parameters                                 |             | Same as UL                                      |         |
| - Uplink transport channel type                        |             | DCH                                             |         |
| - UL TrCH identity                                     |             | 5                                               |         |
| - DCH quality target                                   |             | 2.0 Deel/ 0.2.0 hy step of 0.4)                 |         |
| BLER Quality value     Downlink transport channel type |             | -2.0 Real(-6.30 by step of 0.1)<br>DCH          |         |
| - DL Transport channel identity                        |             | DCH<br>  6                                      |         |
| - CHOICE DL parameters                                 |             | Same as UL                                      |         |
| - Uplink transport channel type                        |             | DCH                                             |         |
| - UL TrCH identity                                     |             | 1                                               |         |
| - DCH quality target                                   |             |                                                 |         |
| - BLER Quality value                                   |             | -2.0 Real(-6.30 by step of 0.1)                 |         |
| Added or Reconfigured TrCH information list            | A3, A4, A5, | 2 TrCHs(DCH for DCCH and DCH for                |         |
|                                                        | A6, A7      | DTCH)                                           |         |
| - Added or Reconfigured DL TrCH information            |             |                                                 |         |
| - Downlink transport channel type                      |             | DCH                                             |         |
| - DL Transport channel identity                        |             | 10                                              |         |
| - CHOICE DL parameters                                 |             | Same as UL                                      |         |
| Uplink transport channel type     UL TrCH identity     |             | DCH<br>5                                        |         |
| - DCH quality target                                   |             | 3                                               |         |
| - BLER Quality value                                   |             | -2.0 Real(-6.30 by step of 0.1)                 |         |
| - Downlink transport channel type                      |             | DCH                                             |         |
| - DL Transport channel identity                        |             | 6                                               |         |
| - CHOICE DL parameters                                 |             | Explicit                                        |         |
| - TFS                                                  |             | -                                               |         |
| - CHOICE Transport channel type                        |             | Dedicated transport channels                    |         |
| - Dynamic transport format information                 |             | ·                                               |         |
| - RLC Size                                             |             | Reference to TS34.108 clause 6.11               |         |
|                                                        |             | Parameter Set                                   |         |
| - Number of TBs and TTI List                           |             | (This IE is repeated for TF number.)            |         |
| - Transmission Time Interval                           |             | Not Present                                     |         |
| - Number of Transport blocks                           |             | Reference to TS34.108 clause 6.11 Parameter Set |         |
| - Semi-static Transport Format information             |             | raiaillelei Sel                                 |         |
| - Ochii-statio Transport i Offiat Illioffiation        | <u> </u>    |                                                 |         |

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| Information Element                                      | Condition | Value/remark                                    | Version |
|----------------------------------------------------------|-----------|-------------------------------------------------|---------|
| - Transmission time interval                             |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| <ul> <li>Type of channel coding</li> </ul>               |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| - Coding Rate                                            |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| <ul> <li>Rate matching attribute</li> </ul>              |           | Reference to TS34.108 clause 6.11               |         |
| <b>S</b>                                                 |           | Parameter Set                                   |         |
| - CRC size                                               |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| - DCH quality target                                     |           |                                                 |         |
| - Transparent mode signalling info                       |           | Not Present                                     |         |
| Added or Reconfigured TrCH information list              | A2, A8    | 4 TrCHs(DCH for DCCH and 3DCHs                  |         |
| Added of Resemigated Treff information for               | 712,710   | for DTCH)                                       |         |
| - Added or Reconfigured DL TrCH information              |           | 101 2 1011)                                     |         |
| - Downlink transport channel type                        |           | DCH                                             |         |
| - DL Transport channel identity                          |           | 10                                              |         |
| - CHOICE DL parameters                                   |           | Same as UL                                      |         |
|                                                          |           |                                                 |         |
| - Uplink transport channel type                          |           | DCH                                             |         |
| - UL TrCH identity                                       |           | 5                                               |         |
| - DCH quality target                                     |           |                                                 |         |
| - Transparent mode signalling info                       |           | Not Present                                     |         |
| - Downlink transport channel type                        |           | DCH                                             |         |
| <ul> <li>DL Transport channel identity</li> </ul>        |           | 6                                               |         |
| - CHOICE DL parameters                                   |           | Explicit                                        |         |
| - TFS                                                    |           |                                                 |         |
| <ul> <li>CHOICE Transport channel type</li> </ul>        |           | Dedicated transport channels                    |         |
| <ul> <li>Dynamic transport format information</li> </ul> |           |                                                 |         |
| - RLC Size                                               |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| <ul> <li>Number of TBs and TTI List</li> </ul>           |           | (This IE is repeated for TF number.)            |         |
| - Transmission Time Interval                             |           | Not Present                                     |         |
| - Number of Transport blocks                             |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| - Semi-static Transport Format information               |           |                                                 |         |
| - Transmission time interval                             |           | Reference to TS34.108 clause 6.11               |         |
| Transmission and merval                                  |           | Parameter Set                                   |         |
| - Type of channel coding                                 |           | Reference to TS34.108 clause 6.11               |         |
| Type of charmer county                                   |           | Parameter Set                                   |         |
| - Coding Rate                                            |           | Reference to TS34.108 clause 6.11               |         |
| - Couling Nate                                           |           | _                                               |         |
| Data matching attribute                                  |           | Parameter Set Reference to TS34.108 clause 6.11 |         |
| - Rate matching attribute                                |           |                                                 |         |
| 000 -:                                                   |           | Parameter Set                                   |         |
| - CRC size                                               |           | Reference to TS34.108 clause 6.11               |         |
| DOLL III .                                               |           | Parameter Set                                   |         |
| - DCH quality target                                     |           |                                                 |         |
| - BLER Quality value                                     |           | -2.0                                            |         |
| - Downlink transport channel type                        |           | DCH                                             |         |
| <ul> <li>DL Transport channel identity</li> </ul>        |           | 7                                               |         |
| - CHOICE DL parameters                                   |           | Explicit                                        |         |
| - TFS                                                    |           |                                                 |         |
| <ul> <li>CHOICE Transport channel type</li> </ul>        |           | Dedicated transport channels                    |         |
| <ul> <li>Dynamic transport format information</li> </ul> |           | ·                                               |         |
| - RLC Size                                               |           | Reference to TS34.108 clause 6.11               |         |
|                                                          |           | Parameter Set                                   |         |
| - Number of TBs and TTI List                             |           | (This IE is repeated for TF number.)            |         |
| - Transmission Time Interval                             |           | Not Present                                     |         |
| - Number of Transport blocks                             |           | Reference to TS34.108 clause 6.11               |         |
| . taz. or transport blooks                               |           | Parameter Set                                   |         |
| - Semi-static Transport Format information               |           |                                                 |         |
| - Transmission time interval                             |           | Reference to TS34.108 clause 6.11               |         |
| - 1141131111331011 111115 111161741                      |           | Parameter Set                                   |         |
| Type of channel coding                                   |           |                                                 |         |
| - Type of channel coding                                 |           | Reference to TS34.108 clause 6.11               |         |
| Cadina Dat-                                              |           | Parameter Set                                   |         |
| - Coding Rate                                            |           | Reference to TS34.108 clause 6.11               |         |
| <b>D</b>                                                 |           | Parameter Set                                   |         |
| <ul> <li>Rate matching attribute</li> </ul>              |           | Reference to TS34.108 clause 6.11               |         |

| Information Element                        | Condition            | Value/remark                                       | Version |
|--------------------------------------------|----------------------|----------------------------------------------------|---------|
| - CRC size                                 |                      | Parameter Set<br>Reference to TS34.108 clause 6.11 |         |
|                                            |                      | Parameter Set                                      |         |
| - DCH quality target - BLER Quality value  |                      | -2.0                                               |         |
| - Downlink transport channel type          |                      | DCH                                                |         |
| - DL Transport channel identity            |                      | 8                                                  |         |
| - CHOICE DL parameters                     |                      | Explicit                                           |         |
| - TFS                                      |                      |                                                    |         |
| - CHOICE Transport channel type            |                      | Dedicated transport channels                       |         |
| - Dynamic transport format information     |                      |                                                    |         |
| - RLC Size                                 |                      | Reference to TS34.108 clause 6.11                  |         |
| - Number of TBs and TTI List               |                      | Parameter Set (This IE is repeated for TF number.) |         |
| - Transmission Time Interval               |                      | Not Present                                        |         |
| - Number of Transport blocks               |                      | Reference to TS34.108 clause 6.11                  |         |
| ·                                          |                      | Parameter Set                                      |         |
| - Semi-static Transport Format information |                      |                                                    |         |
| - Transmission time interval               |                      | Reference to TS34.108 clause 6.11                  |         |
| Type of channel anding                     |                      | Parameter Set                                      |         |
| - Type of channel coding                   |                      | Reference to TS34.108 clause 6.11 Parameter Set    |         |
| - Coding Rate                              |                      | Reference to TS34.108 clause 6.11                  |         |
|                                            |                      | Parameter Set                                      |         |
| - Rate matching attribute                  |                      | Reference to TS34.108 clause 6.11                  |         |
|                                            |                      | Parameter Set                                      |         |
| - CRC size                                 |                      | Reference to TS34.108 clause 6.11                  |         |
| - DCH quality target                       |                      | Parameter Set                                      |         |
| - BLER Quality value                       |                      | -2.0                                               |         |
| Frequency info                             | A1, A2, A3,          |                                                    |         |
|                                            | A4, A5, A7,          |                                                    |         |
| - Choice mode                              | A8                   | TDD                                                |         |
| - UARFCN (Nt)                              |                      | Reference to clause 5.1 Test                       |         |
| or and one (int)                           |                      | frequencies                                        |         |
| Frequency info                             | A6                   | Not Present                                        |         |
| Maximum allowed UL TX power                | A1, A2, A3,          | 33dBm                                              |         |
| Maximum allowed UL TX power                | A4, A7, A8<br>A5, A6 | Not Present                                        |         |
| CHOICE channel requirement                 | A5, A6               | Not Present                                        |         |
| CHOICE channel requirement                 | A1, A2, A3,          | Uplink DPCH info                                   |         |
| ·                                          | A4, A7, A8           | •                                                  |         |
| - Uplink DPCH power control info           |                      |                                                    |         |
| - CHOICE mode                              |                      | TDD                                                |         |
| - CHOICE TDD option                        |                      | 1.28 Mcps TDD                                      |         |
| - PRXpDpCHdes                              |                      | Integer (-12058 by step of 1)                      |         |
| - CHOICE UL OL PC info                     |                      | Nivill                                             |         |
| - Broadcast UL OL PC info                  |                      | Null<br>Not Propert                                |         |
| - Uplink Timing Advance Control            |                      | Not Present                                        |         |
| - UL CCTrCH List<br>- TFCS ID              |                      | 1                                                  |         |
| - IFCS ID - UL Target SIR                  |                      | Real (-11 20 by step of 0.5dB)                     |         |
| or raigot ont                              |                      | Reference to TS34.108 Parameter                    |         |
|                                            |                      | set.                                               |         |
| - Time info                                |                      |                                                    |         |
| - Activation time                          |                      | (256+CFN-(CFN MOD 8 + 8))MOD                       |         |
| - Duration                                 |                      | 256<br>Infinite                                    |         |
| - Common timeslot info                     |                      |                                                    |         |
| - 2 <sup>nd</sup> interleaving mode        |                      | Default value is "Frame"                           |         |
| - TFCI coding                              |                      | Reference to TS34.108 clause 6                     |         |
|                                            |                      | Parameter set                                      |         |
| - Puncturing limit                         |                      | Reference to TS34.108 clause 6                     |         |
|                                            |                      | Parameter set                                      |         |

| Information Element                                                            | Condition                 | Value/remark                          | Version  |
|--------------------------------------------------------------------------------|---------------------------|---------------------------------------|----------|
| - Repetition period                                                            |                           | 1                                     |          |
| - Repetition length                                                            |                           |                                       |          |
| - Uplink DPCH timeslots and code                                               |                           |                                       |          |
| - Dynamic SF usage                                                             |                           | FALSE                                 |          |
| - First individual timeslot info                                               |                           |                                       |          |
| - Timeslot number                                                              |                           |                                       |          |
| - CHOICE TDD option                                                            |                           | 1.28 Mcps TDD                         |          |
| - Timeslot number                                                              |                           | 1 OR 2 OR 3                           |          |
| - TFCI existence                                                               |                           | TRUE                                  |          |
| - Midamble shift and burst type                                                |                           |                                       |          |
| - CHOICE TDD option                                                            |                           | 1.28 Mcps TDD                         |          |
| - Midamble allocation mode                                                     |                           | Default midamble                      |          |
| - Midamble configuration                                                       |                           | 16                                    |          |
| - Midamble Shift                                                               |                           | Not Present                           |          |
| - CHOICE TDD option                                                            |                           | 1.28 Mcps TDD                         |          |
| - Modulation                                                                   |                           | QPSK                                  |          |
| - SS-TPC Symbols                                                               |                           | 1                                     |          |
| <ul> <li>Additional TPC-SS Symbols</li> </ul>                                  |                           | Not present                           |          |
| - First timeslot Code List                                                     |                           | Repeated (1,2) for each               |          |
|                                                                                |                           | channelisation code assigned          |          |
|                                                                                |                           | in the slot to meet the needs         |          |
|                                                                                |                           | of TS34.108 clause 6 Parameter Set.   |          |
| - channelisation codes                                                         |                           | (SF/ i) where i denotes an unassigned |          |
| SHAINIGHGANGII GGGGG                                                           |                           | code matching the SF                  |          |
|                                                                                |                           | specified in TS34.108 clause          |          |
|                                                                                |                           | 6 Parameter Set.                      |          |
| - CHOICE more timeslots                                                        |                           | No more timeslots                     |          |
| - UL CCTrCH List to Remove                                                     |                           | Not present                           |          |
| CHOICE Mode                                                                    | A1, A2, A3,               | TDD                                   |          |
|                                                                                | A4, A5, A6,               |                                       |          |
| D 1: 1 110 DD00111 (                                                           | A7, A8                    | N . B                                 | DEL 6    |
| Downlink HS-PDSCH Information  Downlink information common for all radio links | A                         | Not Present Not Present               | REL-5    |
| Downlink information common for all radio links                                | A5, A6<br>A1, A2, A3      | Not Flesent                           |          |
| - Downlink DPCH info common for all RL                                         | Α1, Α2, Α3                |                                       |          |
| - Timing indication                                                            |                           | Maintain                              |          |
| - CFN-targetSFN frame offset                                                   |                           | Not Present                           |          |
| - Downlink DPCH power control information                                      |                           |                                       |          |
| - CHOICE mode                                                                  |                           | TDD                                   |          |
| - TPC Step Size                                                                |                           | 1                                     |          |
| - MAC-d HFN initial value<br>- CHOICE mode                                     |                           | Not Present                           |          |
| - CHOICE mode                                                                  |                           | TDD<br>  TDD                          |          |
| - CHOICE TDD option                                                            |                           | 1.28 Mcps TDD                         |          |
| - TSTD indicator                                                               |                           | FALSE                                 |          |
| - Default DPCH Offset Value                                                    |                           | Not Present                           |          |
| Downlink information common for all radio links                                | A4, A7, A8                |                                       |          |
| - Downlink DPCH info common for all RL                                         |                           |                                       |          |
| - Timing indication                                                            |                           | Initialise                            |          |
| - CFN-targetSFN frame offset                                                   |                           | Not Present                           |          |
| Downlink DPCH power control information     CHOICE mode                        |                           | TDD                                   |          |
| - TPC Step Size                                                                |                           | 100<br>  1                            |          |
| - MAC-d HFN initial value                                                      |                           | Not Present                           |          |
| - CHOICE mode                                                                  |                           | TDD                                   |          |
| - CHOICE mode                                                                  |                           | TDD                                   |          |
| - CHOICE TDD option                                                            |                           | 1.28 Mcps TDD                         |          |
| - TSTD indicator                                                               |                           | FALSE                                 |          |
| - Default DPCH Offset Value                                                    |                           | TDD                                   |          |
| - CHOICE mode                                                                  |                           | TDD                                   |          |
| - Default DPCH Offset Value                                                    | A1 A2 A2                  | 0 Integer(07)                         |          |
| Downlink information per radio link list                                       | A1, A2, A3,<br>A4, A7, A8 |                                       |          |
| - Downlink information for each radio link                                     | Ατ, ΑΙ, ΑΟ                |                                       |          |
| Downlink information for each radio link                                       |                           | 1                                     | <u> </u> |

| Information Element                               | Condition | Value/remark                                       | Version |
|---------------------------------------------------|-----------|----------------------------------------------------|---------|
| - Choice mode                                     |           | TDD                                                |         |
| - Primary CCPCH info                              |           |                                                    |         |
| - Choice mode                                     |           | TDD                                                |         |
| - Choice TDD Option                               |           | 1.28 Mcps TDD                                      |         |
| - TSTD indicator                                  |           | FALSE                                              |         |
| - Cell parameters ID                              |           | Ref. to the Default setting in                     |         |
|                                                   |           | TS34.108 clause 6.1 (TDD)                          |         |
|                                                   |           | Integer(0127)                                      |         |
| - SCTD indicator                                  |           | FALSE                                              |         |
| - Downlink DPCH info for each RL                  |           |                                                    |         |
| - CHOICE mode                                     |           | TDD                                                |         |
| - DL CCTrCh List                                  |           |                                                    |         |
| - TFCS ID                                         |           | 2 Integer(1.8)                                     |         |
| - Time info                                       |           | 3 ( 1)                                             |         |
| - Activation time                                 |           | Now                                                |         |
| - Duration                                        |           | Infinite                                           |         |
| - Common timeslot info                            |           |                                                    |         |
| - 2 <sup>nd</sup> interleaving mode               |           | Default value is "Frame"                           |         |
| - TFCI coding                                     |           | Reference to TS34.108 clause 6                     |         |
| <b>3</b>                                          |           | Parameter set                                      |         |
| - Puncturing limit                                |           | Reference to TS34.108 clause 6                     |         |
|                                                   |           | Parameter set                                      |         |
| - Repetition period                               |           | 1                                                  |         |
| - Repetition length                               |           | NULL                                               |         |
| - Downlink DPCH timeslots and codes               |           |                                                    |         |
| - First individual timeslot info                  |           |                                                    |         |
| - Timeslot number                                 |           |                                                    |         |
|                                                   |           | 4.00 Mara TDD                                      |         |
| - CHOICE TDD option                               |           | 1.28 Mcps TDD                                      |         |
| - Timeslot number                                 |           | 4 OR 5 OR 6                                        |         |
| - TFCI existence                                  |           | TRUE                                               |         |
| <ul> <li>Midamble shift and burst type</li> </ul> |           |                                                    |         |
| - CHOICE TDD option                               |           | 1.28 Mcps TDD                                      |         |
| - Midamble allocation mode                        |           | Default midamble                                   |         |
|                                                   |           |                                                    |         |
| - Midamble configuration                          |           | 16                                                 |         |
| - Midamble Shift                                  |           | Not Present                                        |         |
| - CHOICE TDD option                               |           | 1.28 Mcps TDD                                      |         |
| - Modulation                                      |           | QPSK                                               |         |
| - SS-TPC Symbols                                  |           | 1                                                  |         |
| - Additional TPC-SS Sysbols                       |           | Not present                                        |         |
|                                                   |           | =                                                  |         |
| - First timeslot channelisation codes             |           | Repeated (1,2) for each                            |         |
|                                                   |           | channelisation code assigned                       |         |
|                                                   |           | in the slot to meet the needs                      |         |
|                                                   |           | of TS34.108 clause 6                               |         |
| 011010                                            |           | Parameter Set.                                     |         |
| <ul> <li>CHOICE codes representation</li> </ul>   |           |                                                    |         |
| <ul> <li>Channelisation codes bitmap</li> </ul>   |           | Reference to TS34.108 clause 6.11                  |         |
|                                                   |           | Parameter Set                                      |         |
| - CHOICE more timeslots                           |           | No more timeslots                                  |         |
| - UL CCTrCH TPC List                              |           | This list is not required for 1.28 Mcps            |         |
|                                                   |           | TDD and is to be ignored by                        |         |
|                                                   |           | the UE.                                            |         |
| - UL TPC TFCS Identity                            |           | 02.                                                |         |
| - TFCS ID                                         |           |                                                    |         |
|                                                   |           | -                                                  |         |
| - Shared Channel Indicator                        |           | FALSE                                              |         |
| - DL CCTrCH List to Remove                        |           | Not present                                        |         |
| - SCCPCH Information for FACH                     |           | Not Present                                        |         |
| ownlink information per radio link list           | A5        |                                                    |         |
| Downlink information for each radio link          |           |                                                    |         |
| - Choice mode                                     |           | TDD                                                |         |
| - Primary CCPCH info                              |           |                                                    |         |
|                                                   |           | TDD                                                |         |
| - Choice mode                                     |           | , =                                                |         |
|                                                   |           | 1.28 Mcps TDD                                      |         |
| - Choice TDD Option                               |           | 1.28 Mcps TDD<br>FALSE                             |         |
|                                                   |           | 1.28 Mcps TDD FALSE Ref. to the Default setting in |         |

| Information Element                      | Condition | Value/remark  | Version |
|------------------------------------------|-----------|---------------|---------|
|                                          |           | Integer(0127) |         |
| - SCTD indicator                         |           | FALSE         |         |
| - Downlink DPCH info for each RL         |           | Not Present   |         |
| - SCCPCH Information for FACH            |           | Not Present   |         |
| Downlink information per radio link list | A6        | Not Present   |         |

| Condition | Explanation                                                    |
|-----------|----------------------------------------------------------------|
| A1        | This IE need for "Non speech to CELL_DCH from CELL_DCH in CS"  |
| A2        | This IE need for "Speech to CELL_DCH from CELL_DCH in CS"      |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"      |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"     |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"     |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"    |
| A7        | This IE need for "Non speech to CELL_DCH from CELL_FACH in CS" |
| A8        | This IE need for "Speech to CELL_DCH from CELL_FACH in CS"     |

### Contents of RADIO BEARER SETUP COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                                  | Version |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       |                                                                                                                                                                                                               |         |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.                                                                                                           |         |
| Integrity check info                               |                                                                                                                                                                                                               |         |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.          |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                              |         |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                                  |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                           |         |
| - CHOICE TDD option                                | Check that this IE is present                                                                                                                                                                                 | REL-4   |
| START                                              | Not checked (if ciphering is OFF), check the presence if ciphering is ON.                                                                                                                                     |         |
| COUNT-C activation time                            | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB establishment procedure. Else, this IE is absent. |         |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.               |         |
| Uplink counter synchronisation info                | Not present                                                                                                                                                                                                   |         |

#### Contents of RADIO BEARER SETUP FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 |                                                                                                                                                                                                      |
| RRC transaction identitifer                                  | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.                                                                              |
| Integrity check info                                         |                                                                                                                                                                                                      |
| - Message authentication code                                | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not Check                                                                                                                                                                                            |

# Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                     | Value/remark                                                                                                                                                                                            | Version |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                            |                                                                                                                                                                                                         |         |
| RRC transaction identifier                              | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.                                                                                                      |         |
| Integrity check info                                    | meccage.                                                                                                                                                                                                |         |
| - Message authentication code                           | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.    |         |
| - RRC Message sequence number                           | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                        |         |
| Uplink integrity protection activation info CHOICE mode | Not checked. TDD                                                                                                                                                                                        |         |
| - CHOICE TDD option                                     | 1.28 Mcps TDD (no data)                                                                                                                                                                                 |         |
| COUNT-C activation time                                 | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent. |         |
| Radio bearer uplink ciphering activation time info      | If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.       |         |
| Uplink counter synchronisation info                     | Not checked                                                                                                                                                                                             |         |

#### Contents of RADIO BEARER RELEASE FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 |                                                                                                                                                                                                      |
| RRC transaction identitifer                                  | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message.                                                                                          |
| Integrity check info                                         |                                                                                                                                                                                                      |
| - Message authentication code                                | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not checked                                                                                                                                                                                          |

#### Contents of RRC CONNECTION REQUEST message: TM

| Information Element                         | Value/remark                                      | Version |
|---------------------------------------------|---------------------------------------------------|---------|
| Message Type                                |                                                   |         |
| Predefined configuration status information | Check that this IE is present                     | REL-5   |
| Initial UE identity                         |                                                   |         |
| - CHOICE UE id type                         |                                                   |         |
| - IMSI (GSM-MAP)                            | Set to the UE's IMSI (GSM-MAP) or TMSI.           |         |
| Establishment cause                         | To be checked against requirement if specified    |         |
| Protocol error indicator                    | FALSE                                             |         |
| UE Specific Behaviour Information 1 idle    | This IE will not be checked by default behaviour, |         |
| •                                           | but in specific test case.                        |         |
| Measured results on RACH                    | Not checked                                       |         |
| Access stratum release indicator            | Check that this IE is present                     | REL-4   |

### Contents of RRC CONNECTION RELEASE message: UM

| Information Element           | Value/remark                                             | Version    |
|-------------------------------|----------------------------------------------------------|------------|
| Message Type                  |                                                          |            |
| U-RNTI                        | This IE is set to the following value when the           | R99, REL-4 |
|                               | message is transmitted on the CCCH. When                 |            |
|                               | transmitted on DCCH, this is absent.                     |            |
| - SRNC identity               | 0000 0000 0001B                                          |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                |            |
| CHOICE identity type          | This IE is set to the following value when the           | REL-5      |
|                               | message is transmitted on the CCCH. When                 |            |
|                               | transmitted on DCCH, this is absent.                     |            |
| - U-RNTI                      |                                                          |            |
| - SRNC identity               | 0000 0000 0001B                                          |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                |            |
| - Group identity              | [FFS]                                                    |            |
| - Group release information   | [FFS]                                                    |            |
| RRC transaction identifier    | 0                                                        |            |
| Integrity check info          | This IE is present when this message is transmitted      |            |
|                               | on downlink DCCH. Else, this IE and the sub-IEs are      |            |
|                               | omitted.                                                 |            |
| - Message authentication code | SS calculates the value of MAC-I for this message        |            |
|                               | and writes to this IE. The first/leftmost bit of the bit |            |
|                               | string contains the most significant bit of the MAC-I.   |            |
| - RRC Message sequence number | SS provides the value of this IE, from its internal      |            |
|                               | counter.                                                 |            |
| N308                          | 2 (for CELL_DCH state). Not Present (for UE in other     |            |
|                               | connected mode states).                                  |            |
| Release cause                 | Normal event                                             |            |
| Rplmn information             | Not Present                                              |            |

# Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

| Information Element           | Semantics description                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                         |
| RRC transaction identifier    | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.                             |
| Integrity check info          |                                                                                                                                                                         |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | Checked to see if it is present. This number is used by the SS to compute the XMAC-I                                                                                    |
| Error indication              | Not checked                                                                                                                                                             |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH) (3.84 Mcps TDD option)

| Message Type Initial UE identity  RRC transaction identifier Activation time New U-RNTI - SRNC identity - S-RNTI New C-RNTI RRC State Indicator UTRAN DRX cycle length coefficient Capability update requirement - UE radio access TDD capability update requirement - System specific capability update requirement iist CHOICE Specification mode - Complete specification - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard  - CHOICE Downlink RLC mode - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator  - Number of RLC logical channels - Uplink transport channel type - UL Transport channel type - UL Transport channel lidentity - Logical channel identity - Logical channel identity - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CONDECTION REQUEST" message - Not Present(Now) - Not Present(Now) - Not Present(Now) - Not Present(CENLE) Size interior received RRC CONNECTION REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Ontone REQUEST" message - Onto | _ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| RRC transaction identifier Activation time New U-RNTI - SRNC identity - S-RNTI New C-RNTI RRC State Indicator UTRAN DRX cycle length coefficient Capability update requirement - UE radio access FDD capability update requirement - UE radio access TDD capability update requirement - UE radio access TDD capability update requirement - System specific capability update requirement list CHOICE specification mode - Complete specification - Signalling RB information to setup - RB identity - CHOICE Uplink RLC mode - Transmission RLC discard  - CHOICE Downlink RLC mode - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list - CHOICE LOSIZE list - CHOICE LOSIZE list - CHOICE LOSIZE list - CONNECTION REQUEST* message 0 Not Present(Now)  Not Present - CELL_DCH  9 FALSE - TRUE  GSM - Complete specification - REL- REL- REL CHOICE RRC CONNECTION REQUEST* message 0 Not Present - O000 0000 0000 0000 0001B Not Present - CELL_DCH  9 FALSE - TRUE - GSM - Complete specification - REL- REL- REL- REL- REL CHOICE LOGICAL channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - CHOICE ALC size list - CONDECTION REQUEST* - Not Present - O000 0000 0000 0000 0000 0001B - Not Present - CELL_DCH - FALSE - TRUE - GSM - COmplete specification - REL- REL- REL CHOICE ALC info type - UM RLC - RE MBUXDPIONS - Not Present - UM RLC - RE MBUXDPIONS - Not Present - DCH - S MUB CONTRONS - NOT Present - DCH - S MIN TRUE - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size list - CHOICE ALC size size size size size size size size                  | _ |
| Activation time New U-RNTI - SRNC identity - S-RNTI New C-RNTI New C-RNTI NERC State Indicator UTRAN DRX cycle length coefficient Capability update requirement - UE radio access FDD capability update requirement - UE radio access TDD capability update requirement - System specific capability update requirement list CHOICE specification mode - Complete specification - Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard  - CHOICE Downlink RLC mode - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - CHOICE LC size list - CHOICE RLC size list - CHOI | _ |
| New U-RNTI - SRNC identity - S-RNTI New C-RNTI RCS State Indicator UTRAN DRX cycle length coefficient Capability update requirement - UE radio access FDD capability update requirement - UE radio access TDD capability update requirement - System specific capability update requirement list CHOICE specification mode - Complete specification - Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard  - CHOICE Downlink RLC mode - Transmission RLC discard  - CHOICE Downlink RLC mode - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator  - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list  - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - CELL_DCH - Suot Present - CELL_DCH - SUD PRESENT - CELL_DCH - SUD PRESENT - CELL_DCH - SUD PRESENT - CELL_DCH - SUD PRESENT - CELL_DCH - CEL | _ |
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| - MAC logical channel priority 1 - Downlink RLC logical channel info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| - Number of RLC logical channels 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| - Downlink transport channel type DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
| - DL DCH Transport channel 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |
| identity - DL DSCH Transport channel Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| - DL DSCH Transport channel Not Present identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| - Logical channel identity 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| - RLC logical channel mapping Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |
| indicator  Number of DLC legical shappels  1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| - Number of RLC logical channels - Uplink transport channel type RACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
| - UL Transport channel identity Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |
| - Logical channel identity 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
| - CHOICE RLC size list Explicit List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| - RLC size index According to TS34.108 clause 6 for standalone 13.6 kbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
| - MAC logical channel priority signalling radio bearer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
| - MAC logical channel priority - Downlink RLC logical channel info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| - Number of RLC logical channels 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| - Downlink transport channel type FACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
| - DL DCH Transport channel Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
| identity - DL DSCH Transport channel Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |

| Information Element                                                                         | Value/remark                                       | Version |
|---------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| - Logical channel identity                                                                  | 1                                                  |         |
| - Signalling RB information to setup                                                        | (AM DCCH for RRC)                                  |         |
| - RB identity                                                                               | Not Present                                        |         |
| - CHOICE RLC info type<br>- RLC info                                                        |                                                    |         |
| - CHOICE Uplink RLC mode                                                                    | AM RLC                                             |         |
| - Transmission RLC discard                                                                  | AWINEO                                             |         |
| - SDU discard mode                                                                          | No Discard                                         |         |
| - MAX_DAT                                                                                   | 15                                                 |         |
|                                                                                             |                                                    |         |
|                                                                                             |                                                    |         |
| - Transmission window size                                                                  | 128                                                |         |
| - Timer_RST                                                                                 | 500                                                |         |
| - Max_RST                                                                                   | 1                                                  |         |
| - Polling info                                                                              | 200                                                |         |
| - Timer_poll_prohibit                                                                       | 200 200                                            |         |
| - Timer_poll<br>- Poll_PDU                                                                  |                                                    |         |
| - Poll_SDU                                                                                  | Not present                                        |         |
| - Last transmission PDU poll                                                                | TRUE                                               |         |
| - Last transmission PDU poll                                                                | TRUE                                               |         |
| - Poll_Window                                                                               | 99                                                 |         |
| - Timer_poll_periodic                                                                       | Not Present                                        |         |
| - CHOICE Downlink RLC mode                                                                  | AM RLC                                             |         |
| - In-sequence delivery                                                                      | TRUE                                               |         |
| <ul> <li>Receiving window size</li> </ul>                                                   | 128                                                |         |
| <ul> <li>Downlink RLC status info</li> </ul>                                                |                                                    |         |
| <ul> <li>Timer_status_prohibit</li> </ul>                                                   | 200                                                |         |
| - Timer_EPC                                                                                 | Not Present                                        |         |
| - Missing PDU indicator                                                                     | TRUE                                               |         |
| - Timer_STATUS_periodic                                                                     | Not Present                                        |         |
| - RB mapping info                                                                           | 2 PPMuyOntions                                     |         |
| - Information for each multiplexing option                                                  | 2 RBMuxOptions                                     |         |
| - RLC logical channel mapping                                                               | Not Present                                        |         |
| indicator                                                                                   |                                                    |         |
| - Number of RLC logical channels                                                            | 1                                                  |         |
| <ul> <li>Uplink transport channel type</li> </ul>                                           | DCH                                                |         |
| <ul> <li>UL Transport channel identity</li> </ul>                                           | 5                                                  |         |
| <ul> <li>Logical channel identity</li> </ul>                                                | 2                                                  |         |
| - CHOICE RLC size list                                                                      | Configure                                          |         |
| - MAC logical channel priority                                                              | 2                                                  |         |
| - Downlink RLC logical channel info                                                         | 4                                                  |         |
| <ul> <li>Number of RLC logical channels</li> <li>Downlink transport channel type</li> </ul> | 1 DCH                                              |         |
| - Downlink transport channel type - DL DCH Transport channel                                | 10 DCH                                             |         |
| identity                                                                                    | '                                                  |         |
| - DL DSCH Transport channel                                                                 | Not Present                                        |         |
| identity                                                                                    |                                                    |         |
| - Logical channel identity                                                                  | 2                                                  |         |
| - RLC logical channel mapping                                                               | Not Present                                        |         |
| indicator                                                                                   |                                                    |         |
| - Number of RLC logical channels                                                            | 1<br>PACH                                          |         |
| - Uplink transport channel type                                                             | RACH<br>Not Present                                |         |
| - UL Transport channel identity                                                             | Not Present                                        |         |
| <ul> <li>Logical channel identity</li> <li>CHOICE RLC size list</li> </ul>                  | 2<br>Explicit List                                 |         |
| - RLC size index                                                                            | According to TS34.108 clause 6 for standalone 13.6 |         |
| TALO SIZE ITIGEA                                                                            | kbps signalling radio bearer                       |         |
| - MAC logical channel priority                                                              | 2                                                  |         |
| - Downlink RLC logical channel info                                                         |                                                    |         |
| - Number of RLC logical channels                                                            | 1                                                  |         |
| - Downlink transport channel type                                                           | FACH                                               |         |
| - DL DCH Transport channel                                                                  | Not Present                                        |         |
| identity                                                                                    |                                                    |         |
| - DL DSCH Transport channel                                                                 | Not Present                                        |         |
| identity                                                                                    | 1                                                  |         |

| Information Element                                   | Value/remark                                                                    | Version |
|-------------------------------------------------------|---------------------------------------------------------------------------------|---------|
| - Logical channel identity                            | 2                                                                               |         |
| Signalling RB information to setup                    | (AM DCCH for NAS_DT High priority)                                              |         |
| - RB identity - CHOICE RLC info type                  | Not Present                                                                     |         |
| - RLC info                                            |                                                                                 |         |
| - CHOICE Uplink RLC mode                              | AM RLC                                                                          |         |
| - Transmission RLC discard                            |                                                                                 |         |
| - SDU discard mode                                    | No Discard                                                                      |         |
| - MAX_DAT                                             | 15                                                                              |         |
|                                                       |                                                                                 |         |
| - Transmission window size                            | 128                                                                             |         |
| - Timer_RST                                           | 500                                                                             |         |
| - Max_RST                                             | 1                                                                               |         |
| - Polling info                                        |                                                                                 |         |
| - Timer_poll_prohibit - Timer_poll                    | 200<br>  200                                                                    |         |
| - Poll_PDU                                            | Not present                                                                     |         |
| - Poll_SDU                                            | 1                                                                               |         |
| <ul> <li>Last transmission PDU poll</li> </ul>        | TRUE                                                                            |         |
| - Last retransmission PDU poll                        | TRUE                                                                            |         |
| - Poll_Windows                                        | 99<br>Not Present                                                               |         |
| - Timer_poll_periodic - CHOICE Downlink RLC mode      | Not Present<br>  AM RLC                                                         |         |
| - In-sequence delivery                                | TRUE                                                                            |         |
| - Receiving window size                               | 128                                                                             |         |
| - Downlink RLC status info                            |                                                                                 |         |
| - Timer_status_prohibit                               | 200                                                                             |         |
| - Timer_EPC - Missing PDU indicator                   | Not Present TRUE                                                                |         |
| - Timer_STATUS_periodic                               | Not Present                                                                     |         |
| - RB mapping info                                     |                                                                                 |         |
| <ul> <li>Information for each multiplexing</li> </ul> | 2 RBMuxOptions                                                                  |         |
| option                                                | Not Droppet                                                                     |         |
| - RLC logical channel mapping indicator               | Not Present                                                                     |         |
| - Number of RLC logical channels                      | 1                                                                               |         |
| <ul> <li>Uplink transport channel type</li> </ul>     | DCH                                                                             |         |
| - UL Transport channel identity                       | 5                                                                               |         |
| - Logical channel identity - CHOICE RLC size list     | 3<br>Configured                                                                 |         |
| - MAC logical channel priority                        | 3                                                                               |         |
| - Downlink RLC logical channel info                   |                                                                                 |         |
| - Number of RLC logical channels                      | 1                                                                               |         |
| - Downlink transport channel type                     | DCH                                                                             |         |
| - DL DCH Transport channel identity                   | 10                                                                              |         |
| - DL DSCH Transport channel                           | Not Present                                                                     |         |
| identity                                              |                                                                                 |         |
| - Logical channel identity                            | 3                                                                               |         |
| - RLC logical channel mapping                         | Not Present                                                                     |         |
| indicator - Number of RLC logical channels            | 1                                                                               |         |
| - Uplink transport channel type                       | RACH                                                                            |         |
| <ul> <li>UL Transport channel identity</li> </ul>     | Not Present                                                                     |         |
| - Logical channel identity                            | 3                                                                               |         |
| - CHOICE RLC size list                                | Explicit List                                                                   |         |
| - RLC size index                                      | According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer |         |
| - MAC logical channel priority                        | 3                                                                               |         |
| - Downlink RLC logical channel info                   |                                                                                 |         |
| - Number of RLC logical channels                      | 1                                                                               |         |
| - Downlink transport channel type                     | FACH                                                                            |         |
| - DL DCH Transport channel identity                   | Not Present                                                                     |         |
| - DL DSCH Transport channel                           | Not Present                                                                     |         |
| identity                                              |                                                                                 |         |
|                                                       |                                                                                 |         |

| Information Element                                                                           | Value/remark                                       | Version |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| - Logical channel identity                                                                    | 3                                                  |         |
| - Signalling RB information to setup                                                          | (AM DCCH for NAS_DT Low priority)                  | 1       |
| - RB identity                                                                                 | Not Present                                        | 1       |
| - CHOICE RLC info type<br>- RLC info                                                          |                                                    | 1       |
| - CHOICE Uplink RLC mode                                                                      | AM RLC                                             | 1       |
| - Transmission RLC discard                                                                    |                                                    | 1       |
| - SDU discard mode                                                                            | No discard                                         | 1       |
| - MAX_DAT                                                                                     | 15                                                 | 1       |
|                                                                                               |                                                    | 1       |
| - Transmission window size                                                                    | 128                                                | 1       |
| - Transmission window size<br>- Timer_RST                                                     | 128<br>  500                                       | 1       |
| - Max_RST                                                                                     | 1                                                  | 1       |
| - Polling info                                                                                |                                                    | 1       |
| - Timer_poll_prohibit                                                                         | 200                                                | 1       |
| - Timer_poll                                                                                  | 200                                                | 1       |
| - Poll_PDU                                                                                    | Not present                                        | 1       |
| - Poll_SDU                                                                                    | 1   TRUE                                           | 1       |
| Last transmission PDU poll     Last retransmission PDU poll                                   | TRUE                                               | 1       |
| - Poll_Windows                                                                                | 99                                                 | 1       |
| - Timer_poll_periodic                                                                         | Not Present                                        | 1       |
| - CHOICE Downlink RLC mode                                                                    | AM RLC                                             | 1       |
| - In-sequence delivery                                                                        | TRUE                                               | 1       |
| - Receiving window size                                                                       | 128                                                | 1       |
| - Downlink RLC status info                                                                    | 200                                                | 1       |
| - Timer_status_prohibit<br>- Timer_EPC                                                        | 200<br>Not Present                                 | 1       |
| - Timer_EPC<br>- Missing PDU indicator                                                        | TRUE                                               | 1       |
| - Timer_STATUS_periodic                                                                       | Not Present                                        | 1       |
| - RB mapping info                                                                             |                                                    | 1       |
| - Information for each multiplexing                                                           | 2 RBMuxOptions                                     | 1       |
| option                                                                                        | Net Present                                        | 1       |
| - RLC logical channel mapping                                                                 | Not Present                                        | 1       |
| indicator - Number of RLC logical channels                                                    | 1                                                  | 1       |
| - Uplink transport channel type                                                               | DCH                                                | 1       |
| - UL Transport channel identity                                                               | 5                                                  | 1       |
| - Logical channel identity                                                                    | 4                                                  | 1       |
| - CHOICE RLC size list                                                                        | Configured                                         | 1       |
| - MAC logical channel priority                                                                | 4                                                  | 1       |
| <ul> <li>Downlink RLC logical channel info</li> <li>Number of RLC logical channels</li> </ul> | 1                                                  | 1       |
| - Number of RLC logical channels - Downlink transport channel type                            | DCH                                                | 1       |
| - DL DCH Transport channel                                                                    | 10                                                 | 1       |
| identity                                                                                      |                                                    | 1       |
| - DL DSCH Transport channel                                                                   | Not Present                                        | 1       |
| identity                                                                                      |                                                    | 1       |
| - Logical channel identity                                                                    | 4<br>  Not Present                                 | 1       |
| - RLC logical channel mapping indicator                                                       | INOLITESCIIL                                       | 1       |
| - Number of RLC logical channels                                                              | 1                                                  | 1       |
| - Uplink transport channel type                                                               | RACH                                               | 1       |
| - UL Transport channel identity                                                               | Not Present                                        | 1       |
| <ul> <li>Logical channel identity</li> </ul>                                                  | 4                                                  | 1       |
| - CHOICE RLC size list                                                                        | Explicit List                                      | 1       |
| - RLC size index                                                                              | According to TS34.108 clause 6 for standalone 13.6 | 1       |
| - MAC logical channel priority                                                                | kbps signalling radio bearer 4                     | 1       |
| - MAC logical channel priority - Downlink RLC logical channel info                            | ·                                                  | 1       |
| - Number of RLC logical channels                                                              | 1                                                  | 1       |
| <ul> <li>Downlink transport channel type</li> </ul>                                           | FACH                                               | 1       |
| - DL DCH Transport channel                                                                    | Not Present                                        | 1       |
| identity                                                                                      | Not Propert                                        | 1       |
| - DL DSCH Transport channel identity                                                          | Not Present                                        | 1       |
| Contract                                                                                      | ı                                                  | 1       |

| Information Element                                           | Value/remark                                       | Version |
|---------------------------------------------------------------|----------------------------------------------------|---------|
| - Logical channel identity                                    | 4                                                  |         |
| UL Transport channel information for all                      |                                                    |         |
| transport channels                                            |                                                    |         |
| - PRACH TFCS                                                  | Not Present                                        |         |
| - CHOICE mode                                                 | TDD                                                |         |
| -Individual UL CCTrCH                                         |                                                    |         |
| information                                                   |                                                    |         |
| - UL TFCS ID                                                  | (This IE is repeated for TFC number.)              |         |
| - UL TFCS                                                     | Defection is a feeting and the second of           |         |
| - TFC subset                                                  | Default value is the complete existing set of      |         |
| AU 1-                                                         | transport format combinations                      |         |
| - Allowed Transport Format                                    | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to        |         |
| combination - PRACH TFCS                                      | TS34.108 clause 6 Parameter Set.)                  |         |
| - CHOICE TFCI signalling                                      | (This IE is repeated for TFC number.) Normal       |         |
| - TFCI Field 1 information                                    | Normal                                             |         |
| - TFCS complete                                               |                                                    |         |
| reconfigure information                                       |                                                    |         |
| - CHOICE TFCS Size                                            | Number of used bits must be enough to cover        |         |
|                                                               | all combinations of CTFC from clauses 6.           |         |
|                                                               | Refer to TS34.108 clause 6 Parameter Set           |         |
| - CTFC information                                            | Not Present                                        |         |
| - CHOICE mode                                                 | TDD                                                |         |
| - Individual UL CCTrCH                                        | Not Present                                        |         |
| information                                                   | Not Droppet                                        |         |
| Deleted TrCH information list                                 | Not Present                                        |         |
| Added or Reconfigured UL TrCH information                     |                                                    |         |
| - Uplink transport channel type                               | DCH                                                |         |
| - UL Transport channel identity                               | 5                                                  |         |
| - TFS                                                         |                                                    |         |
| - CHOICE Transport channel type                               | Dedicated transport channels                       |         |
| - Dynamic Transport format                                    | '                                                  |         |
| information                                                   |                                                    |         |
| - RLC size                                                    | According to TS34.108 clause 6 for standalone 13.6 |         |
|                                                               | kbps signalling radio bearer                       |         |
| - Number of TBs and TTI lists                                 | (This IE is repeated for TFI number)               |         |
| - CHOICE mode                                                 | TDD                                                |         |
| - Transmission Time Interval                                  | According to TS34.108 clause 6 for standalone 13.6 |         |
| - CHOICE Logical channel list                                 | kbps signalling radio bearer All                   |         |
| - Semi-static Transport Format                                | All .                                              |         |
| information                                                   |                                                    |         |
| DL Transport channel information                              |                                                    |         |
| common for all transport channel                              |                                                    |         |
| - SCCPCH TFCS                                                 | Not Present                                        |         |
| - CHOICE mode                                                 | TDD                                                |         |
| -Individual DL CCTrCH information                             |                                                    |         |
| - DL TFCS Identity                                            |                                                    |         |
| - TFCS ID                                                     | 1                                                  |         |
| - Shared Channel Indicator                                    | Same as UL                                         |         |
| - CHOICE DL parameters Added or Reconfigured TrCH information | Jaille as UL                                       |         |
| list                                                          |                                                    |         |
| - Added or Reconfigured DL TrCH                               |                                                    |         |
| information                                                   |                                                    |         |
| - Downlink transport channel type                             | DCH                                                |         |
| <ul> <li>DL Transport channel identity</li> </ul>             | 10                                                 |         |
| - CHOICE DL parameters                                        | Same as UL                                         |         |
| - Uplink transport channel type                               | DCH                                                |         |
| - UL Transport channel identity                               | 5                                                  |         |
| -DCH quality target                                           | 6.3                                                |         |
| - BLER Quality target                                         | -6.3                                               |         |
| Frequency info Maximum allowed UL TX power                    | Not Present Not Present                            |         |
| HOICE channel requirement                                     | Uplink DPCH info                                   |         |
| - Uplink DPCH power control info                              | Opiniis Di Oli iiilo                               |         |
| Opinik Di Ori power control illio                             |                                                    |         |

| Information Element                                                   | Value/remark                                    | Version |
|-----------------------------------------------------------------------|-------------------------------------------------|---------|
| - CHOICE mode                                                         | TDD                                             |         |
| - CHOICE TDD option                                                   | 3.84 Mcps                                       |         |
| - UL target SIR                                                       | Reference to TS34.108 Parameter set             |         |
| - CHOICE mode                                                         | TDD                                             |         |
| - CHOICE UL OL PC info                                                | Individually signalled                          |         |
| - CHOICE TDD option                                                   | 3.84 Mcps                                       |         |
| <ul> <li>Individual timeslot</li> </ul>                               | Not Present                                     |         |
| interference info                                                     |                                                 |         |
| <ul> <li>Individual timeslot interference</li> </ul>                  |                                                 |         |
| <ul> <li>DPCH Constant Value</li> </ul>                               |                                                 |         |
| <ul> <li>Primary CCPCH Tx Power</li> </ul>                            | Not Present                                     |         |
| - Time info                                                           |                                                 |         |
| <ul> <li>Activation time</li> </ul>                                   | (256+CFN-(CFN MOD 8 + 8))MOD 256                |         |
| - Duration                                                            | Infinite                                        |         |
| <ul> <li>Common timeslot info</li> </ul>                              |                                                 |         |
| - 2 <sub>nd</sub> interleaving mode                                   | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - TFCI coding                                                         | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Puncturing Limit                                                    | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Repetition Period                                                   | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Repetition Length                                                   | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Uplink DPCH timeslots and                                           | Default is to use the old timeslots and codes   |         |
| codes                                                                 | (n = d=4=)                                      |         |
| - CPCH SET Info                                                       | (no data)                                       |         |
| Downlink information common for all                                   |                                                 |         |
| radio links                                                           |                                                 |         |
| - Downlink DPCH info common for                                       |                                                 |         |
| all RL                                                                | Material                                        |         |
| - Timing indicator                                                    | Maintain                                        |         |
| - CFN-targetSFN frame offset                                          | Not Present                                     |         |
| - Downlink DPCH power control                                         |                                                 |         |
| information - DPC mode                                                | () (cingle)                                     |         |
|                                                                       | 0 (single)                                      |         |
| - CHOICE TOD option                                                   |                                                 |         |
| - CHOICE TDD option - Default DPCH Offset Value                       | 3.84 Mcps (no data)                             |         |
| - Default DPCH Offset Value  Downlink information for each radio link | Not Present                                     |         |
| list                                                                  |                                                 |         |
| - Downlink information for each radio link                            |                                                 |         |
| - Choice mode                                                         | TDD                                             |         |
| - Primary CCPCH info                                                  |                                                 |         |
| - CHOICE SyncCase                                                     | Sync Case 1                                     |         |
| - Timeslot                                                            | PCCPCH timeslot                                 |         |
| - Cell parameters ID                                                  | 0                                               |         |
| - SCTD indicator                                                      | -                                               |         |
| - Downlink DPCH info for each RL                                      |                                                 |         |
| - CHOICE mode                                                         | TDD                                             |         |
| - DL CCTrCH List                                                      |                                                 |         |
| - TFCS ID                                                             | 1                                               |         |
| - Time info                                                           |                                                 |         |
| - Activation time                                                     | (256+CFN-(CFN mod 8 + 8))mod 256                |         |
| - Duration                                                            | infinite                                        |         |
| - Common timeslot info                                                |                                                 |         |
| - 2 <sub>nd</sub> interleaving mode                                   | Reference to TS34.108                           |         |
| - TFCI coding                                                         | TRUE                                            |         |
| - Puncturing limit                                                    | Reference to TS34.108 clause 6 Parameter set    |         |
| - Repetition period                                                   | 1                                               |         |
| - Repetition length                                                   | Empty                                           |         |
| - Downlink DPCH timeslots                                             |                                                 |         |
| and codes                                                             |                                                 |         |
| - CHOICE more timeslots                                               |                                                 |         |
| - CHOICE TDD option                                                   | 3.84 Mcps                                       |         |
| - Timeslot number                                                     | The number of a downlink timeslot that has      |         |
|                                                                       | unassigned codes in a frame.                    |         |
| - Individual timeslot                                                 |                                                 |         |
| info                                                                  |                                                 |         |
| - TFCI existence                                                      | TRUE                                            |         |
| - Midamble shift and                                                  |                                                 |         |

| Information Element                                                               | Value/remark                                                                                                                                                                                                                                               | Version |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| burst type - CHOICE TDD option -CHOICE Burst Type                                 | 3.84 Mcps                                                                                                                                                                                                                                                  |         |
| -Type 1 -Midamble Allocation Mode                                                 | Default                                                                                                                                                                                                                                                    |         |
| - Midamble configuration burst type 1 and 3 - First timeslot channelisation codes | As defined in 3GPP TS 25.221                                                                                                                                                                                                                               |         |
| - First channelisation code                                                       | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set                                                                                                                                   |         |
| - Last channelisation code  - CHOICE more timeslots                               | (j/SF) where j is the highest numbered code that is being assigned in the slot.  The presence of this IE depends upon whether the requirements of TS34.108 clause 6  Parameter Set could be met by the codes that have been assigned in the first timeslot |         |
| - UL CCTrCH TPC List                                                              | Not Present                                                                                                                                                                                                                                                |         |
| -SCCPCH information for FACH                                                      | Not Present                                                                                                                                                                                                                                                |         |

### Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH) (1.28 Mcps TDD option)

| Information Element                                   | Value/remark                                      | Version |
|-------------------------------------------------------|---------------------------------------------------|---------|
| Message Type                                          |                                                   |         |
| Initial UE identity                                   | Select the same identity as in the IE "Initial UE |         |
| •                                                     | Identity" in received RRC CONNECTION              |         |
|                                                       | REQUEST" message                                  |         |
| RRC transaction identifier                            | 0                                                 |         |
| Activation time                                       | Not Present(Now)                                  |         |
| New U-RNTI                                            | , ,                                               |         |
| - SRNC identity                                       | 0000 0000 0001B                                   |         |
| - S-RNTI                                              | 0000 0000 0000 0000 0001B                         |         |
| New C-RNTI                                            | Not Present                                       |         |
| RRC State Indicator                                   | CELL_DCH                                          |         |
| UTRAN DRX cycle length coefficient                    | 9, Integer(39)                                    |         |
| Capability update requirement                         |                                                   |         |
| <ul> <li>UE radio access FDD capability</li> </ul>    | FALSE                                             |         |
| update                                                |                                                   |         |
| requirement                                           |                                                   |         |
| <ul> <li>UE radio access 3.84 Mcps TDD</li> </ul>     | FALSE                                             |         |
| capability                                            |                                                   |         |
| update                                                |                                                   |         |
| requirement                                           |                                                   |         |
| <ul> <li>UE radio access 1.28 Mcps TDD</li> </ul>     | TRUE                                              |         |
| capability                                            |                                                   |         |
| update                                                |                                                   |         |
| requirement                                           |                                                   |         |
| <ul> <li>System specific capability update</li> </ul> | Not Present                                       |         |
| requirement list                                      |                                                   |         |
| ode                                                   |                                                   |         |
|                                                       |                                                   |         |
| tion to setup list                                    |                                                   |         |

| Information Element                                         | Value/remark                                 | Version |
|-------------------------------------------------------------|----------------------------------------------|---------|
| - Signalling RB information to setup                        | (UM DCCH for RRC)                            |         |
| - RB identity                                               | 1                                            |         |
| - CHOICE RLC info type                                      | RLC info                                     |         |
| - CHOICE Uplink RLC mode                                    | UM RLC                                       |         |
| <ul> <li>Transmission RLC discard</li> </ul>                | Not Present                                  |         |
| <ul> <li>CHOICE Downlink RLC mode</li> </ul>                | UM RLC                                       |         |
| - RB mapping info                                           |                                              |         |
| <ul> <li>Information for each multiplexing</li> </ul>       | 2 RBMuxOptions                               |         |
| option                                                      |                                              |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>   | Not Present                                  |         |
| <ul> <li>Number of RLC logical channels</li> </ul>          | 1                                            |         |
| <ul> <li>Uplink transport channel type</li> </ul>           | DCH                                          |         |
| - UL Transport channel identity                             | 5                                            |         |
| - Logical channel identity                                  | 1                                            |         |
| - CHOICE RLC size list                                      | Configured                                   |         |
| - MAC logical channel priority                              | 1                                            |         |
| - Downlink RLC logical channel info                         |                                              |         |
| - Number of RLC logical channels                            | 1                                            |         |
| - Downlink transport channel type                           | DCH                                          |         |
| - DL DCH Transport channel identity                         | 10                                           |         |
| - DL DSCH Transport channel identity                        | Not Present                                  |         |
| - DL HS-DSCH MAC-d flow identity - Logical channel identity | Not Present                                  |         |
| - RLC logical channel mapping indicator                     | Not Present                                  |         |
| - Number of RLC logical channels                            | 1                                            |         |
| - Uplink transport channel type                             | RACH                                         |         |
| - UL Transport channel identity                             | Not Present                                  |         |
| - Logical channel identity                                  | 1                                            |         |
| - CHOICE RLC size list                                      | Explicit List                                |         |
| - RLC size index                                            | Reference to TS34.108 clause 6 Parameter Set |         |
| - MAC logical channel priority                              | 1                                            |         |
| - Downlink RLC logical channel info                         |                                              |         |
| - Number of RLC logical channels                            | 1                                            |         |
| - Downlink transport channel type                           | FACH                                         |         |
| - DL DCH Transport channel identity                         | Not Present                                  |         |
| - DL DSCH Transport channel identity                        | Not Present                                  |         |
| - DL HS-DSCH MAC-d flow identity                            | Not Present                                  |         |
| - Logical channel identity                                  | 1                                            |         |
| - Signalling RB information to setup                        | (AM DCCH for RRC)                            |         |
| - RB identity                                               | 2                                            |         |
| - CHOICE RLC info type                                      | RLC info                                     |         |
| - CHOICE Uplink RLC mode                                    | AM RLC                                       |         |
| - Transmission RLC discard                                  | l., _, .                                     |         |
| - CHOICE SDU discard mode                                   | No Discard                                   |         |
| - MAX_DAT                                                   | 15                                           |         |
| - Transmission window size                                  | 128                                          |         |
| - Timer_RST                                                 | 500                                          |         |
| - Max_RST                                                   | 1                                            |         |
| - Polling info                                              | 200                                          |         |
| - Timer_poll_prohibit                                       | 200                                          |         |
| - Timer_poll                                                | 200<br>Not present                           |         |
|                                                             | Not present                                  |         |

| Information Element                              | Value/remark                                 | Version |
|--------------------------------------------------|----------------------------------------------|---------|
| - Poll_SDU                                       | 1                                            |         |
| <ul> <li>Last transmission PDU poll</li> </ul>   | TRUE                                         |         |
| <ul> <li>Last retransmission PDU poll</li> </ul> | TRUE                                         |         |
| - Poll_Window                                    | 99                                           |         |
| <ul> <li>Timer_poll_periodic</li> </ul>          | Not Present                                  |         |
| <ul> <li>CHOICE Downlink RLC mode</li> </ul>     | AM RLC                                       |         |
| <ul> <li>In-sequence delivery</li> </ul>         | TRUE                                         |         |
| <ul> <li>Receiving window size</li> </ul>        | 128                                          |         |
| <ul> <li>Downlink RLC status info</li> </ul>     |                                              |         |
| <ul> <li>Timer_status_prohibit</li> </ul>        | 200                                          |         |
| - Timer_EPC                                      | Not Present                                  |         |
| <ul> <li>Missing PDU indicator</li> </ul>        | TRUE                                         |         |
| <ul><li>- Timer_STATUS_periodic</li></ul>        | Not Present                                  |         |
| - RB mapping info                                |                                              |         |
| - Information for each multiplexing              | 2 RBMuxOptions                               |         |
| option                                           | '                                            |         |
| - RLC logical channel mapping indicator          | Not Present                                  |         |
| - Number of RLC logical channels                 | 1                                            |         |
| - Uplink transport channel type                  | DCH                                          |         |
| - UL Transport channel identity                  | 5                                            |         |
| - Logical channel identity                       | 2                                            |         |
| - CHOICE RLC size list                           | Configure                                    |         |
| - MAC logical channel priority                   | 2                                            |         |
| - Downlink RLC logical channel info              | -                                            |         |
| - Number of RLC logical channels                 | 1                                            |         |
| - Downlink transport channel type                | DCH                                          |         |
| - DL DCH Transport channel identity              |                                              |         |
| - Transport channel identity                     | 10                                           |         |
| - DL DSCH Transport channel identity             | Not Present                                  |         |
| - DL HS-DSCH MAC-d flow identity                 | Not Present                                  |         |
|                                                  | 2                                            |         |
| - Logical channel identity                       |                                              |         |
| - RLC logical channel mapping indicator          | Not Present                                  |         |
| - Number of RLC logical channels                 | 1<br>  RACH                                  |         |
| - Uplink transport channel type                  |                                              |         |
| - UL Transport channel identity                  | Not Present                                  |         |
| - Logical channel identity                       | 2                                            |         |
| - CHOICE RLC size list                           | Explicit List                                |         |
| - RLC size index                                 | Reference to TS34.108 clause 6 Parameter Set |         |
| - MAC logical channel priority                   | 2                                            |         |
| - Downlink RLC logical channel info              | 4                                            |         |
| - Number of RLC logical channels                 | 1                                            |         |
| - Downlink transport channel type                | FACH                                         |         |
| - DL DCH Transport channel identity              | Not Present                                  |         |
| - DL DSCH Transport channel identity             | Not Present                                  |         |
| - DL HS-DSCH MAC-d flow identity                 | Not Present                                  |         |
| - Logical channel identity                       | 2                                            |         |
| Signalling RB information to setup               | (AM DCCH for NAS_DT High priority)           |         |
| - RB identity                                    | 3                                            |         |
| - CHOICE RLC info type                           | RLC info                                     |         |
| - CHOICE Uplink RLC mode                         | AM RLC                                       |         |
| - Transmission RLC discard                       |                                              |         |
| <ul> <li>CHOICE SDU discard mode</li> </ul>      | No Discard                                   |         |
| - MAX_DAT                                        | 15                                           |         |
| <ul> <li>Transmission window size</li> </ul>     | 128                                          |         |
| - Timer_RST                                      | 500                                          |         |
| - Max_RST                                        | 1                                            |         |
| - Polling info                                   |                                              |         |
| - Timer_poll_prohibit                            | 200                                          |         |
| - Timer_poll                                     | 200                                          |         |
| - Poll_PDU                                       | Not present                                  | I       |

| Information Element                                            | Value/remark                                 | Version |
|----------------------------------------------------------------|----------------------------------------------|---------|
| - Poll_SDU                                                     | 1                                            |         |
| - Last transmission PDU poll                                   | TRUE                                         |         |
| <ul> <li>Last retransmission PDU poll</li> </ul>               | TRUE                                         |         |
| - Poll_Windows                                                 | 99                                           |         |
| <ul> <li>Timer_poll_periodic</li> </ul>                        | Not Present                                  |         |
| - CHOICE Downlink RLC mode                                     | AM RLC                                       |         |
| - In-sequence delivery                                         | TRUE                                         |         |
| <ul> <li>Receiving window size</li> </ul>                      | 128                                          |         |
| <ul> <li>Downlink RLC status info</li> </ul>                   |                                              |         |
| <ul> <li>Timer_status_prohibit</li> </ul>                      | 200                                          |         |
| - Timer_EPC                                                    | Not Present                                  |         |
| - Missing PDU indicator                                        | TRUE                                         |         |
| <ul> <li>Timer_STATUS_periodic</li> </ul>                      | Not Present                                  |         |
| - RB mapping info                                              |                                              |         |
| <ul> <li>Information for each multiplexing</li> </ul>          | 2 RBMuxOptions                               |         |
| option                                                         |                                              |         |
| - RLC logical channel mapping indicator                        | Not Present                                  |         |
| <ul> <li>Number of RLC logical channels</li> </ul>             | 1                                            |         |
| <ul> <li>Uplink transport channel type</li> </ul>              | DCH                                          |         |
| - UL Transport channel identity                                | 5                                            |         |
| - Logical channel identity                                     | 3                                            |         |
| - CHOICE RLC size list                                         | Configured                                   |         |
| - MAC logical channel priority                                 | 3                                            |         |
| - Downlink RLC logical channel info                            |                                              |         |
| - Number of RLC logical channels                               | 1                                            |         |
| - Downlink transport channel type                              | DCH                                          |         |
| - DL DCH Transport channel identity                            |                                              |         |
| - Transport channel identity                                   | 10                                           |         |
| - DL DSCH Transport channel identity                           | Not Present                                  |         |
| - DL HS-DSCH MAC-d flow identity                               | Not Present                                  |         |
| - Logical channel identity                                     | 3                                            |         |
| - RLC logical channel mapping indicator                        | Not Present                                  |         |
| - Number of RLC logical channels                               | 1<br>  RACH                                  |         |
| - Uplink transport channel type                                | Not Present                                  |         |
| - UL Transport channel identity     - Logical channel identity | 3                                            |         |
| - CHOICE RLC size list                                         | Explicit List                                |         |
| - RLC size index                                               | Reference to TS34.108 clause 6 Parameter Set |         |
| - MAC logical channel priority                                 | 3                                            |         |
| - Downlink RLC logical channel info                            | Ĭ                                            |         |
| - Number of RLC logical channels                               | 1                                            |         |
| - Downlink transport channel type                              | FACH                                         |         |
| - DL DCH Transport channel identity                            | Not Present                                  |         |
| - DL DSCH Transport channel identity                           | Not Present                                  |         |
| - DL HS-DSCH MAC-d flow identity                               | Not Present                                  |         |
| - Logical channel identity                                     | 3                                            |         |
| - Signalling RB information to setup                           | (AM DCCH for NAS_DT Low priority)            |         |
| - RB identity                                                  | 4                                            |         |
| - CHOICE RLC info type                                         | RLC info                                     |         |
| - CHOICE Uplink RLC mode                                       | AM RLC                                       |         |
| - Transmission RLC discard                                     |                                              |         |
| - CHOICE SDU discard mode                                      | No discard                                   |         |
| - MAX_DAT                                                      | 15                                           |         |
| - Transmission window size                                     | 128                                          |         |
| - Timer_RST                                                    | 500                                          |         |
| - Max_RST                                                      | 1                                            |         |
| - Polling info                                                 |                                              |         |
| <ul><li>Timer_poll_prohibit</li></ul>                          | 200                                          |         |
| - Timer_poll                                                   | 200                                          |         |
| - Poll_PDU                                                     | Not present                                  |         |

| Information Element                                                     | Value/remark                                               | Version |
|-------------------------------------------------------------------------|------------------------------------------------------------|---------|
| - Poll_SDU                                                              | 1                                                          |         |
| - Last transmission PDU poll                                            | TRUE                                                       |         |
| - Last retransmission PDU poll                                          | TRUE                                                       |         |
| - Poll_Windows                                                          | 99                                                         |         |
| - Timer_poll_periodic                                                   | Not Present                                                |         |
| - CHOICE Downlink RLC mode                                              | AM RLC                                                     |         |
| - In-sequence delivery                                                  | TRUE                                                       |         |
| Receiving window size     Downlink RLC status info                      | 128                                                        |         |
|                                                                         | 200                                                        |         |
| - Timer_status_prohibit - Timer_EPC                                     | 200<br>Not Present                                         |         |
| - Missing PDU indicator                                                 | TRUE                                                       |         |
| - Timer_STATUS_periodic                                                 | Not Present                                                |         |
| - RB mapping info                                                       |                                                            |         |
| - Information for each multiplexing                                     | 2 RBMuxOptions                                             |         |
| option                                                                  | ·                                                          |         |
| - RLC logical channel mapping indicator                                 | Not Present                                                |         |
| <ul> <li>Number of RLC logical channels</li> </ul>                      | 1                                                          |         |
| <ul> <li>Uplink transport channel type</li> </ul>                       | DCH                                                        |         |
| - UL Transport channel identity                                         | 5                                                          |         |
| - Logical channel identity                                              | 4                                                          |         |
| - CHOICE RLC size list                                                  | Configured                                                 |         |
| - MAC logical channel priority                                          | 4                                                          |         |
| - Downlink RLC logical channel info<br>- Number of RLC logical channels | 1                                                          |         |
| - Number of RLC logical channels - Downlink transport channel type      | 1<br>DCH                                                   |         |
| - DCH Transport channel identity                                        | 5011                                                       |         |
| - Transport channel identity                                            | 10                                                         |         |
| - DL DSCH Transport channel identity                                    | Not Present                                                |         |
| - DL HS-DSCH MAC-d flow identity                                        | Not Present                                                |         |
| - Logical channel identity                                              | 4                                                          |         |
| - RLC logical channel mapping indicator                                 | Not Present                                                |         |
| <ul> <li>Number of RLC logical channels</li> </ul>                      | 1                                                          |         |
| - Uplink transport channel type                                         | RACH                                                       |         |
| - UL Transport channel identity                                         | Not Present                                                |         |
| - Logical channel identity                                              | 4                                                          |         |
| - CHOICE RLC size list<br>- RLC size index                              | Explicit List Reference to TS34.108 clause 6 Parameter Set |         |
| - RLC size index - MAC logical channel priority                         | 4                                                          |         |
| - Downlink RLC logical channel info                                     |                                                            |         |
| - Number of RLC logical channels                                        | 1                                                          |         |
| - Downlink transport channel type                                       | FACH                                                       |         |
| - DL DCH Transport channel identity                                     | Not Present                                                |         |
| - DL DSCH Transport channel identity                                    | Not Present                                                |         |
| - DL HS-DSCH MAC-d flow identity                                        | Not Present                                                |         |
| - Logical channel identity                                              | 4                                                          |         |
| - UL Transport channel information for all                              |                                                            |         |
| transport channels                                                      | Not Droppet                                                |         |
| - PRACH TFCS                                                            | Not Present                                                |         |
| - CHOICE mode -Individual UL CCTrCH information                         | TDD                                                        |         |
| - UL TFCS ID                                                            | (This IE is repeated for TFC number.)                      |         |
| - OL TECS ID<br>- TECS ID                                               | 1                                                          |         |
| - Shared Channel Indicator                                              | FALSE                                                      |         |
| - UL TFCS                                                               |                                                            |         |
| - CHOICE TFCI signalling                                                | Normal                                                     |         |
| - TFCI Field 1 Information                                              |                                                            |         |
| - CHOICE TFCS                                                           | Complete reconfiguration                                   |         |
| representation                                                          | ,                                                          |         |
| - TFCS complete                                                         |                                                            |         |
| reconfiguration information                                             |                                                            |         |
| - CHOICE CTFC Size                                                      | Configured, Number of bits used must be                    |         |
|                                                                         | enough to cover all combinations of CTFC                   |         |
|                                                                         | from TS34.108 clause 6.11.5.4 Parameter                    |         |
|                                                                         | Set.                                                       |         |
| - CTFC information                                                      | This IE is repeated for TFC numbers and                    |         |
|                                                                         | reference to TS34.108 clause 6.11.5.4                      |         |
|                                                                         |                                                            | •       |

| Information Element | Value/remark  | Version |
|---------------------|---------------|---------|
|                     | Parameter Set |         |

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| Information Element                                                                             | Value/remark                                                            | Version |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------|
| - CTFC                                                                                          | Reference to TS34.108 clause 6.11.5.4                                   |         |
| Dower offeet                                                                                    | Parameter Set                                                           |         |
| - Power offset<br>Information                                                                   |                                                                         |         |
| - CHOICE Gain                                                                                   | Computed Gain Factors(The last TFC is set                               |         |
| Factors                                                                                         | to Signalled Gain Factors)                                              |         |
| - Reference TFC ID<br>- CHOICE Gain                                                             | 0, Integer(03)                                                          |         |
| Factors                                                                                         | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to |         |
|                                                                                                 | ComputedGain Factors)                                                   |         |
| - CHOICE mode                                                                                   | TDD                                                                     |         |
| - Gain Factor d                                                                                 | 15                                                                      |         |
| - Reference TFC ID<br>- CHOICE mode                                                             | 0, Integer (03)                                                         |         |
| - TFC subset                                                                                    | TDD Default value is the complete existing set of                       |         |
| 11 0 000000                                                                                     | transport format combinations                                           |         |
| - CHOICE Subset representation                                                                  | Allowed transport format combination list                               |         |
| - Allowed Transport Format combination                                                          | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to                             |         |
| combination - Transport format                                                                  | TS34.108 clause 6 Parameter Set.)<br>Integer (0 1023)                   |         |
| combination                                                                                     |                                                                         |         |
| - TFC subset list                                                                               | Not present                                                             |         |
| - Added or Reconfigured UL TrCH information list                                                |                                                                         |         |
| - Added or Reconfigured UL TrCH                                                                 |                                                                         |         |
| information - Uplink transport channel type                                                     | DCH                                                                     |         |
| - UL Transport channel identity                                                                 | 5                                                                       |         |
| - TFS                                                                                           |                                                                         |         |
| <ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul> | Dedicated transport channels                                            |         |
| - RLC size                                                                                      | According to TS34.108 clause 6 for standalone                           |         |
|                                                                                                 | 13.6 kbps signalling radio bearer                                       |         |
| <ul> <li>Number of TBs and TTI lists</li> <li>Transmission Time Interval</li> </ul>             | (This IE is repeated for TFI number)  Not Present                       |         |
| - Number of Transport blocks                                                                    | Reference to TS34.108 clause 6.11 Parameter                             |         |
| ·                                                                                               | Set                                                                     |         |
| <ul> <li>CHOICE Logical channel list</li> <li>Semi-static Transport Format</li> </ul>           | All                                                                     |         |
| information                                                                                     |                                                                         |         |
| - Transmission time interval                                                                    | Reference to TS34.108 clause 6.11 Parameter                             |         |
| - Type of channel coding                                                                        | Set Reference to TS34.108 clause 6.11 Parameter                         |         |
| 1,750 of original odding                                                                        | Set                                                                     |         |
| - Coding Rate                                                                                   | Reference to TS34.108 clause 6.11 Parameter                             |         |
| - Rate matching attribute                                                                       | Set Reference to TS34.108 clause 6.11 Parameter                         |         |
| -                                                                                               | Set                                                                     |         |
| DL Transport channel information common for                                                     |                                                                         |         |
| all transport channel - SCCPCH TFCS                                                             | Not Present                                                             |         |
| - CHOICE mode                                                                                   | TDD                                                                     |         |
| -Individual DL CCTrCH information                                                               |                                                                         |         |
| <ul><li>DL TFCS Identity</li><li>TFCS ID</li></ul>                                              | 1                                                                       |         |
| <ul> <li>Shared Channel Indicator</li> </ul>                                                    | FALSE                                                                   |         |
| - CHOICE DL parameters                                                                          | Same as UL                                                              |         |
| <ul> <li>Added or Reconfigured TrCH information<br/>list</li> </ul>                             |                                                                         |         |
| - Added or Reconfigured DL TrCH                                                                 |                                                                         |         |
| information                                                                                     | DOLL                                                                    |         |
| <ul> <li>Downlink transport channel type</li> <li>DL Transport channel identity</li> </ul>      | DCH<br>10                                                               |         |
| - CHOICE DL parameters                                                                          | Same as UL                                                              |         |
| <ul> <li>Uplink transport channel type</li> </ul>                                               | DCH                                                                     |         |
| <ul> <li>UL Transport channel identity</li> </ul>                                               | 5                                                                       |         |

| Information Element                                                          | Value/remark                                    | Version |
|------------------------------------------------------------------------------|-------------------------------------------------|---------|
| -DCH quality target                                                          |                                                 |         |
| - BLER Quality target                                                        | -6.3                                            |         |
| Frequency info                                                               | Not Present                                     |         |
| Maximum allowed UL TX power                                                  | 33dBm                                           |         |
| HOICE channel requirement                                                    | Uplink DPCH info                                |         |
| <ul> <li>Uplink DPCH power control info</li> </ul>                           |                                                 |         |
| - CHOICE mode                                                                | TDD                                             |         |
| - CHOICE TDD option                                                          | 1.28 Mcps TDD                                   |         |
| - PRX <sub>PDPCHdes</sub>                                                    | Reference to TS34.108 clause 6.11 Parameter set |         |
| - CHOICE UL OL PC info                                                       | Individually signalled                          |         |
| - CHOICE TDD option                                                          | 1.28 Mcps TDD                                   |         |
| - TPC step size                                                              | 1 dB                                            |         |
| - Primary CCPCH Tx Power                                                     | Not Present                                     |         |
| - CHOICE mode                                                                | TDD                                             |         |
| - Uplink Timing Advance Control                                              | Enabled                                         |         |
| <ul> <li>CHOICE Timing Advance</li> <li>CHOICE TDD option</li> </ul>         | 1.28 Mcps TDD                                   |         |
| - Uplink synchronisation                                                     | 1.26 Wicps 1DD                                  |         |
| parameters                                                                   |                                                 |         |
| - Uplink synchronisation step size                                           | 1                                               |         |
| - Uplink synchronisation                                                     | 1                                               |         |
| frequency                                                                    |                                                 |         |
| - Synchronisation parameters                                                 | Not present                                     |         |
| - UL CCTrCH List                                                             | ·                                               |         |
| - TFCS ID                                                                    | 1                                               |         |
| - UL Target SIR                                                              | Real (-11 20 by step of 0.5dB)                  |         |
|                                                                              | Reference to TS34.108 clause 6.11 Parameter     |         |
|                                                                              | set.                                            |         |
| - Time info                                                                  | (                                               |         |
| - Activation time                                                            | (256+CFN-(CFN MOD 8 + 8))MOD 256                |         |
| - Duration                                                                   | Infinite                                        |         |
| - Common timeslot info                                                       | Reference to TS34.108 clause 6 Parameter Set    |         |
| - 2nd interleaving mode<br>- TFCI coding                                     | Reference to TS34.108 clause 6 Parameter Set    |         |
| - Puncturing Limit                                                           | Reference to TS34.108 clause 6 Parameter Set    |         |
| - Repetition Period                                                          | Treference to 1004.100 statuse of arameter oct  |         |
| - Repetition Length                                                          | null                                            |         |
| - Uplink DPCH timeslots and                                                  | 1.4                                             |         |
| codes                                                                        |                                                 |         |
| - Dynamic SF usage                                                           | FALSE                                           |         |
| <ul> <li>First individual timeslot info</li> </ul>                           |                                                 |         |
| <ul> <li>Timeslot number</li> </ul>                                          |                                                 |         |
| <ul> <li>CHOICE TDD option</li> </ul>                                        | 1.28 Mcps TDD                                   |         |
| - Timeslot number                                                            | 1 OR 2 OR 3                                     |         |
| - TFCI existence                                                             | TRUE                                            |         |
| - Midamble shift and burst type                                              | 4 20 Mana TDD                                   |         |
| - CHOICE TDD option                                                          | 1.28 Mcps TDD Default midamble                  |         |
| <ul> <li>Midamble allocation mode</li> <li>Midamble configuration</li> </ul> | 16                                              |         |
| - Midamble Configuration - Midamble Shift                                    | Not Present                                     |         |
| - CHOICE TDD option                                                          | 1.28 Mcps TDD                                   |         |
| - Modulation                                                                 | QPSK                                            |         |
| - SS-TPC Symbols                                                             | 1                                               |         |
| - Additional TPC-SS Sysbols                                                  | Not present                                     |         |
| - First timeslot Code List                                                   | Repeated (1,2) for each channelisation code     |         |
|                                                                              | assigned in the slot to meet the needs of       |         |
|                                                                              | TS34.108 clause 6 Parameter Set.                |         |
| <ul> <li>channelisation codes</li> </ul>                                     | (SF/ i) where i denotes an unassigned code      |         |
|                                                                              | matching the SF specified in TS34.108 clause 6  |         |
| 0110105                                                                      | Parameter Set.                                  |         |
| - CHOICE more timeslots                                                      | No more timeslots                               |         |
| - UL CCTrCH List to Remove                                                   | Not present                                     |         |
| Downlink information common for all radio links                              |                                                 |         |
| - Downlink DPCH info common for all RL                                       |                                                 |         |
| Timing indication                                                            | Initialize                                      |         |
| - CFN-targetSFN frame offset                                                 | Not Present                                     |         |
| - Or N-targetor in traille Ullset                                            | 1101   1635  1                                  |         |

| Information Element                                | Value/remark                                    | Version |
|----------------------------------------------------|-------------------------------------------------|---------|
| - Downlink DPCH power control                      |                                                 |         |
| information                                        |                                                 |         |
| - CHOICE mode                                      | TDD                                             |         |
| - TPC Step Size                                    | 1 dB                                            |         |
| - MAC-d HFN initial value                          | Not Present                                     |         |
| - CHOICE mode                                      | TDD (no data)                                   |         |
| - CHOICE mode                                      | TDD                                             |         |
| - CHOICE TDD option<br>- TSTD indicator            | 1.28 Mcps TDD<br>FALSE                          |         |
| - Default DPCH Offset Value                        | Not Present                                     |         |
| Downlink information for each radio link list      | Not i lesem                                     |         |
| - Downlink information for each radio link         |                                                 |         |
| - Choice mode                                      | TDD                                             |         |
| - Primary CCPCH info                               |                                                 |         |
| - CHOICE mode                                      | TDD                                             |         |
| - CHOICE TDD option                                | 1.28 Mcps TDD                                   |         |
| - TSTD indicator                                   | FALSE                                           |         |
| <ul> <li>Cell parameters ID</li> </ul>             | Not present                                     |         |
| - SCTD indicator                                   | FALSE                                           |         |
| - Downlink DPCH info for each RL                   |                                                 |         |
| - CHOICE mode                                      | TDD                                             |         |
| - DL CCTrCH List                                   |                                                 |         |
| - TFCS ID                                          | 1                                               |         |
| - Time info                                        | (256 + CEN (CEN mod 0 + 0)\mod 250              |         |
| - Activation time<br>- Duration                    | (256+CFN-(CFN mod 8 + 8))mod 256<br>infinite    |         |
| - Duration - Common timeslot info                  | minite                                          |         |
| - 2nd interleaving mode                            | Reference to TS34.108 clause 6.11 Parameter set |         |
| - TFCI coding                                      | Reference to TS34.108 clause 6.11 Parameter set |         |
| - Puncturing limit                                 | Reference to TS34.108 clause 6.11 Parameter set |         |
| - Repetition period                                | 1                                               |         |
| - Repetition length                                | NULL                                            |         |
| - Downlink DPCH timeslots and                      |                                                 |         |
| codes                                              |                                                 |         |
| <ul> <li>First Individual timeslot info</li> </ul> |                                                 |         |
| - Timeslot number                                  |                                                 |         |
| - CHOICE more timeslots                            |                                                 |         |
| - CHOICE TDD option                                | 1.28 McpsTDD                                    |         |
| Timeslet number                                    | 4 OD 5 OD 6                                     |         |
| - Timeslot number<br>- Individual timeslot info    | 4 OR 5 OR 6                                     |         |
| - TFCI existence                                   | TRUE                                            |         |
| - Midamble shift and burst                         | TROE                                            |         |
| type                                               |                                                 |         |
| - CHOICE TDD option                                | 1.28 Mcps TDD                                   |         |
| -Midamble Allocation                               | Default                                         |         |
| Mode                                               |                                                 |         |
| - Midamble                                         | 16 Integer(2, 4, 6, 8, 10, 12, 14, 16)          |         |
| configuration                                      |                                                 |         |
| - Midamble Shift                                   | Not present                                     |         |
| - CHOICE TDD option                                | 1.28 Mcps TDD                                   |         |
| - Modulation                                       | QPSK                                            |         |
| - SS-TPC Symbols                                   | Not present                                     |         |
| - Additional TPC-SS<br>Symbols                     | Not present                                     |         |
| - First timeslot channelisation                    |                                                 |         |
| - First timeslot channelisation codes              |                                                 |         |
| - CHOICE codes                                     | Consecutive codes                               |         |
| representation                                     |                                                 |         |
| - First channelisation code                        | (i/SF) where i is the lowest numbered code      |         |
|                                                    | that is being assigned and SF is specified in   |         |
|                                                    | TS34.108 clause 6 Parameter Set                 |         |
| <ul> <li>Last channelisation code</li> </ul>       | (j/SF) where j is the highest numbered code     |         |
|                                                    | that is being assigned in the slot.             |         |
| - CHOICE more timeslots                            | The presence of this IE depends upon whether    |         |
|                                                    | the requirements of TS34.108 clause 6           |         |
|                                                    | Parameter Set could be met by the codes that    |         |

| Information Element          | Value/remark                             | Version |
|------------------------------|------------------------------------------|---------|
|                              | have been assigned in the first timeslot |         |
| - UL CCTrCH TPC List         |                                          |         |
| - UL TPC TFCS Identity       | 1                                        |         |
| - DL CCTrCH List to Remove   | Not present                              |         |
| -SCCPCH information for FACH | Not Present                              |         |

### Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH) (1.28 Mcps TDD)

| Information Element                                          | Value/remark                                   | Version |
|--------------------------------------------------------------|------------------------------------------------|---------|
| Message Type                                                 |                                                |         |
| Initial UE identity                                          | Select the same identity as in the IE "Initial |         |
|                                                              | UE Identity" in received RRC CONNECTION        |         |
|                                                              | REQUEST" message                               |         |
| RRC transaction identifier                                   | Arbitrarily selects an integer between 0 and 3 |         |
| Activation time                                              | Not Present(Now)                               |         |
| New U-RNTI                                                   |                                                |         |
| - SRNC identity                                              | 0000 0000 0001B                                |         |
| - S-RNTI                                                     | 0000 0000 0000 0000 0001B                      |         |
| New C-RNTI                                                   | Not Present                                    |         |
| RRC State Indicator                                          | CELL_FACH                                      |         |
| UTRAN DRX cycle length coefficient                           | 9 , Integer(39)                                |         |
| Capability update requirement                                |                                                |         |
| DD capability update requirement                             |                                                |         |
| 3.84 Mcps TDD capability update requirement                  |                                                |         |
| .28 Mcps TDD capability update requirement                   |                                                |         |
| apability update requirement list                            |                                                |         |
| ode                                                          |                                                |         |
| tion to setup list                                           |                                                |         |
| - Signalling RB information to setup                         | (UM DCCH for RRC)                              |         |
| - RB identity                                                | 1                                              |         |
| - CHOICE RLC info type                                       | RLC info                                       |         |
| - CHOICE Uplink RLC mode                                     | UM RLC                                         |         |
| - Transmission RLC discard                                   | Not Present                                    |         |
| - CHOICE Downlink RLC mode                                   | UM RLC                                         |         |
| - RB mapping info                                            |                                                |         |
| <ul> <li>Information for each multiplexing option</li> </ul> | 1 RBMuxOptions                                 |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                    |         |
| <ul> <li>Number of RLC logical channels</li> </ul>           | 1                                              |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | RACH                                           |         |
| <ul> <li>UL Transport channel identity</li> </ul>            | Not Present                                    |         |
| <ul> <li>Logical channel identity</li> </ul>                 | 1                                              |         |
| <ul> <li>CHOICE RLC size list</li> </ul>                     | Explicit List                                  |         |
| - RLC size index                                             | Reference to TS34.108 clause 6 Parameter       |         |
|                                                              | Set                                            |         |
| - MAC logical channel priority                               | 1                                              |         |
| - Downlink RLC logical channel info                          |                                                |         |
| - Number of RLC logical channels                             | 1                                              |         |
| - Downlink transport channel type                            | FACH                                           |         |
| - DL DCH Transport channel identity                          | Not Present                                    |         |
| - DL DSCH Transport channel identity                         | Not Present                                    |         |
| - DL HS-DSCH MAC-d flow identity                             | Not Present                                    |         |
| - Logical channel identity                                   | 1                                              |         |
| - Signalling RB information to setup                         | (AM DCCH for RRC)                              |         |
| - RB identity                                                | 2                                              |         |
| - CHOICE RLC info type                                       | RLC info                                       |         |
| - CHOICE Uplink RLC mode                                     | AM RLC                                         |         |
| - Transmission RLC discard                                   |                                                |         |
| - CHOICE SDU discard mode                                    | No Discard                                     |         |
| - MAX_DAT                                                    | 15                                             |         |
| <ul> <li>Transmission window size</li> </ul>                 | 128                                            |         |

| Information Element                                          | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| - Timer_RST                                                  | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | *       |
| - Max_RST                                                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Polling info                                               | '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Timer_poll_prohibit                                        | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Timer_poil_profilibit<br>- Timer_poil                      | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Timer_poii                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| Dall CDU                                                     | Not present<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - Poll_SDU                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Last transmission PDU poll                                 | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Last retransmission PDU poll                               | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Poll_Window                                                | 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - Timer_poll_periodic                                        | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - CHOICE Downlink RLC mode                                   | AM RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - In-sequence delivery                                       | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Receiving window size                                      | 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Downlink RLC status info                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Timer_status_prohibit                                      | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Timer_EPC                                                  | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| <ul> <li>Missing PDU indicator</li> </ul>                    | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| <ul><li>- Timer_STATUS_periodic</li></ul>                    | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - RB mapping info                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>Information for each multiplexing option</li> </ul> | 1 RBMuxOptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Number of RLC logical channels                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Uplink transport channel type                              | RACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - UL Transport channel identity                              | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Logical channel identity                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - CHOICE RLC size list                                       | Explicit List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - RLC size index                                             | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| 1120 0.20 11.00%                                             | Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - MAC logical channel priority                               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Downlink RLC logical channel info                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Number of RLC logical channels                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Downlink transport channel type                            | FACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - DL DCH Transport channel identity                          | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - DL DSCH Transport channel identity                         | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - DL HS-DSCH MAC-d flow identity                             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
|                                                              | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Logical channel identity                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Signalling RB information to setup                         | (AM DCCH for NAS_DT High priority)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - RB identity                                                | 3<br>DI C info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| - CHOICE RLC info type                                       | RLC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - CHOICE Uplink RLC mode                                     | AM RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - Transmission RLC discard                                   | N B: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - CHOICE SDU discard mode                                    | No Discard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| MAX_DAT                                                      | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - Transmission window size                                   | 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Timer_RST                                                  | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Max_RST                                                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Polling info                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul><li>- Timer_poll_prohibit</li></ul>                      | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Timer_poll                                                 | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Poll_SDU                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| <ul> <li>Last transmission PDU poll</li> </ul>               | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| <ul> <li>Last retransmission PDU poll</li> </ul>             | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Poll_Window                                                | 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - Timer_poll_periodic                                        | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - CHOICE Downlink RLC mode                                   | AM RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - In-sequence delivery                                       | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Receiving window size                                      | 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Downlink RLC status info                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Timer_status_prohibit                                      | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Timer_EPC                                                  | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Missing PDU indicator                                      | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Timer_STATUS_periodic                                      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - RB mapping info                                            | THOSE FROM THE PROPERTY OF THE |         |
| - Information for each multiplexing option                   | 1 RBMuxOptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| - RLC logical channel mapping indicator                      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - NEO logical chamile mapping mulcator                       | HOLLIGGERE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |

| Information Element                                                                       | Value/remark                             | Version |
|-------------------------------------------------------------------------------------------|------------------------------------------|---------|
| - Number of RLC logical channels                                                          | 1                                        | ·       |
| - Uplink transport channel type                                                           | RACH                                     |         |
| - UL Transport channel identity                                                           | Not Present                              |         |
| - Logical channel identity                                                                | 3                                        |         |
| - CHOICE RLC size list                                                                    | Explicit List                            |         |
| - RLC size index                                                                          | Reference to TS34.108 clause 6 Parameter |         |
|                                                                                           | Set                                      |         |
| <ul> <li>MAC logical channel priority</li> </ul>                                          | 3                                        |         |
| - Downlink RLC logical channel info                                                       |                                          |         |
| - Number of RLC logical channels                                                          | 1                                        |         |
| - Downlink transport channel type                                                         | FACH                                     |         |
| - DL DCH Transport channel identity                                                       | Not Present                              |         |
| - DL DSCH Transport channel identity                                                      | Not Present                              |         |
| - DL HS-DSCH MAC-d flow identity                                                          | Not Present 3                            |         |
| Logical channel identity     Signalling RB information to setup                           | (AM DCCH for NAS_DT Low priority)        |         |
| - RB identity                                                                             | 4                                        |         |
| - CHOICE RLC info type                                                                    | RLC info                                 |         |
| - CHOICE Uplink RLC mode                                                                  | AM RLC                                   |         |
| - Transmission RLC discard                                                                |                                          |         |
| - CHOICE SDU discard mode                                                                 | No discard                               |         |
| - MAX_DAT                                                                                 | 15                                       |         |
| - Transmission window size                                                                | 128                                      |         |
| - Timer_RST                                                                               | 500                                      |         |
| - Max_RST                                                                                 | 1                                        |         |
| - Polling info                                                                            |                                          |         |
| <ul> <li>Timer_poll_prohibit</li> </ul>                                                   | 200                                      |         |
| - Timer_poll                                                                              | 200                                      |         |
| Doll CDL                                                                                  |                                          |         |
| - Poll_SDU                                                                                | 1<br>  TRUE                              |         |
| Last transmission PDU poll     Last retransmission PDU poll                               | TRUE                                     |         |
| - Poll_Window                                                                             | 99                                       |         |
| - Timer_poll_periodic                                                                     | Not Present                              |         |
| - CHOICE Downlink RLC mode                                                                | AM RLC                                   |         |
| - In-sequence delivery                                                                    | TRUE                                     |         |
| - Receiving window size                                                                   | 128                                      |         |
| - Downlink RLC status info                                                                |                                          |         |
| - Timer_status_prohibit                                                                   | 200                                      |         |
| - Timer_EPC                                                                               | Not Present                              |         |
| - Missing PDU indicator                                                                   | TRUE                                     |         |
| - Timer_STATUS_periodic                                                                   | Not Present                              |         |
| - RB mapping info                                                                         | 4 DDM:Ortion                             |         |
| - Information for each multiplexing option                                                | 1 RBMuxOptions                           |         |
| - RLC logical channel mapping indicator                                                   | Not Present                              |         |
| <ul> <li>Number of RLC logical channels</li> <li>Uplink transport channel type</li> </ul> | 1 RACH                                   |         |
| - UL Transport channel identity                                                           | Not Present                              |         |
| - Logical channel identity                                                                | 4                                        |         |
| - CHOICE RLC size list                                                                    | Explicit List                            |         |
| - RLC size index                                                                          | Reference to TS34.108 clause 6 Parameter |         |
|                                                                                           | Set                                      |         |
| - MAC logical channel priority                                                            | 4                                        |         |
| - Downlink RLC logical channel info                                                       |                                          |         |
| <ul> <li>Number of RLC logical channels</li> </ul>                                        | 1                                        |         |
| - Downlink transport channel type                                                         | FACH                                     |         |
| - DL DCH Transport channel identity                                                       | Not Present                              |         |
| - DL DSCH Transport channel identity                                                      | Not Present                              |         |
| - DL HS-DSCH MAC-d flow identity                                                          | Not Present                              |         |
| - Logical channel identity                                                                | 4                                        |         |
| - UL Transport channel information for all transport channels                             |                                          |         |
| - PRACH TFCS                                                                              | Not Present                              |         |
| - CHOICE mode                                                                             | TDD                                      |         |
| -Individual UL CCTrCH information                                                         | ·                                        |         |
| - UL TFCS Identity                                                                        |                                          |         |
| - TFCS ID                                                                                 | 1                                        |         |
| •                                                                                         | •                                        | ٠ '     |

| Information Element                                          | Value/remark                                                         | Version  |
|--------------------------------------------------------------|----------------------------------------------------------------------|----------|
| - Shared Channel Indicator                                   | FALSE                                                                |          |
| - UL TFCS                                                    |                                                                      |          |
| - CHOICE TFCI signalling                                     | Normal                                                               |          |
| - TFCI Field 1 Information - CHOICE TFCS representation      | Complete reconfiguration                                             |          |
| - TFCS complete reconfiguration                              | Complete recorniguration                                             |          |
| information                                                  |                                                                      |          |
| - CHOICE CTFC Size                                           | Configured, Number of bits used must be                              |          |
|                                                              | enough to cover all combinations of CTFC                             |          |
|                                                              | from TS34.108 clause 6.11.5.4 Parameter                              |          |
| - CTFC information                                           | Set. This IE is repeated for TFC numbers and                         |          |
| - OTI O IIIIOITIAIIOII                                       | reference to TS34.108 clause 6.11.5.4                                |          |
|                                                              | Parameter Set                                                        |          |
| - CTFC                                                       | Reference to TS34.108 clause 6.11.5.4                                |          |
|                                                              | Parameter Set                                                        |          |
| - Power offset Information                                   | O                                                                    |          |
| - CHOICE Gain Factors                                        | Computed Gain Factors(The last TFC is set to Signalled Gain Factors) |          |
| - Reference TFC ID                                           | 0, Integer(0 3)                                                      |          |
| - CHOICE Gain Factors                                        | Signalled Gain Factors(Not Present if the                            |          |
|                                                              | CHOICE Gain Factors is set to                                        |          |
|                                                              | ComputedGain Factors)                                                |          |
| - CHOICE mode                                                | TDD                                                                  |          |
| - Gain Factor d<br>- Reference TFC ID                        | 15<br>0, Integer (03)                                                |          |
| - CHOICE mode                                                | TDD                                                                  |          |
| - TFC subset                                                 | Default value is the complete existing set of                        |          |
|                                                              | transport format combinations                                        |          |
| - CHOICE Subset representation                               | Allowed transport format combination list                            |          |
| - Allowed Transport Format combination                       | 0 to MaxTFCvalue-1 (MaxTFCValue is refer                             |          |
|                                                              | to TS34.108 clause 6 Parameter Set.)                                 |          |
| - Transport format combination                               | Integer (0 1023)                                                     |          |
| - TFC subset list                                            | Not present                                                          |          |
| - Added or Reconfigured UL TrCH information list             | Not present                                                          |          |
| - DL Transport channel information common for all            |                                                                      |          |
| transport channel                                            | N . B                                                                |          |
| - SCCPCH TFCS<br>- CHOICE mode                               | Not Present TDD                                                      |          |
| -Individual DL CCTrCH information                            |                                                                      |          |
| - DL TFCS Identity                                           |                                                                      |          |
| - TFCS ID                                                    | 1                                                                    |          |
| - Shared Channel Indicator                                   | FALSE                                                                |          |
| - CHOICE DL parameters                                       | Same as UL                                                           |          |
| - Added or Reconfigured TrCH information list Frequency info | Not present Not Present                                              |          |
| Maximum allowed UL TX power                                  | Default value is the existing maximum UL TX                          |          |
|                                                              | power                                                                |          |
| CHOICE channel requirement                                   | Not present                                                          | <u>'</u> |
| Downlink information common for all radio links              | Not present                                                          |          |
| Downlink information for each radio link list                |                                                                      |          |
| - Downlink information for each radio link - Choice mode     | TDD                                                                  |          |
| - Primary CCPCH info                                         | .55                                                                  |          |
| - CHOICE mode                                                | TDD                                                                  |          |
| - CHOICE TDD option                                          | 1.28 Mcps TDD                                                        |          |
| - TSTD indicator                                             | False                                                                |          |
| - Cell parameters ID                                         | Not Present                                                          |          |
| - SCTD indicator - Downlink DPCH info for each RL            | False Not Present                                                    |          |
| - SCCPCH information for FACH                                | Not Present                                                          |          |
| 555. 5                                                       | 1 : : : : : : : : : : : : : : : : : : :                              | 1        |

# Contents of RRC CONNECTION SETUP COMPLETE message: AM

| Information Element                  | Value/remark                                               |
|--------------------------------------|------------------------------------------------------------|
| Message Type                         |                                                            |
| RRC transaction identifier           | The value of this IE is checked to see that it matches the |
|                                      | value of the same IE transmitted in the downlink RRC       |
|                                      | CONNECTION SETUP message.                                  |
| START list                           | Not checked                                                |
| UE radio access capability           | Not checked                                                |
| UE radio access capability extension | Not checked                                                |
| UE system specific capability        | Not checked                                                |

### Contents of SECURITY MODE COMMAND message: AM

| Information Element                                                                                       | Condition | Value/remark                                                                             |
|-----------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------|
| Message Type                                                                                              | A1, A2    |                                                                                          |
| RRC transaction identifier                                                                                |           | Arbitrarily selects an integer between 0 and 3                                           |
| Integrity check info                                                                                      |           | 0                                                                                        |
| - Message authentication code                                                                             |           | Set to an arbitrarily selected 32-bits integer. The                                      |
|                                                                                                           |           | first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.    |
| - RRC Message Sequence Number                                                                             |           | Set to an arbitrarily selected integer between 0                                         |
| - Titto Message Dequence Number                                                                           |           | and 15                                                                                   |
| Security capability                                                                                       |           | and 10                                                                                   |
| - Ciphering algorithm capability                                                                          |           |                                                                                          |
| - UEA0                                                                                                    |           | If ciphering is not indicated to be active on IXIT                                       |
|                                                                                                           |           | statements in TS 34.123-2, set this IE to TRUE.                                          |
| - UEA1                                                                                                    |           | If ciphering is indicated to be active on IXIT                                           |
|                                                                                                           |           | statements in TS 34.123-2, set this IE to TRUE.                                          |
| - Spare                                                                                                   |           | FALSE                                                                                    |
| - Integrity protection algorithm capability                                                               |           | 000000000000010B (UIA1)                                                                  |
| - UIA1                                                                                                    |           | TRUE                                                                                     |
| - Spare                                                                                                   |           | FALSE                                                                                    |
| Ciphering mode info                                                                                       |           | This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is |
|                                                                                                           |           | indicated to be active, this IE present with the                                         |
|                                                                                                           |           | values of the sub IEs as stated below. Else, this                                        |
|                                                                                                           |           | IE is omitted.                                                                           |
| - Ciphering mode command                                                                                  |           | Start/restart                                                                            |
| - Ciphering algorithm                                                                                     |           | Use the same ciphering algorithm specified in                                            |
|                                                                                                           |           | "ciphering algorithm capability" IE in this                                              |
|                                                                                                           |           | message.                                                                                 |
| <ul> <li>Ciphering activation time for DPCH</li> </ul>                                                    |           | Not Present                                                                              |
| - Radio bearer downlink ciphering activation                                                              |           |                                                                                          |
| time info                                                                                                 |           |                                                                                          |
| - Radio bearer activation time                                                                            |           | 1                                                                                        |
| - RB identity - RLC sequence number                                                                       |           | Current RLC SN+2                                                                         |
| - RB identity                                                                                             |           | 2                                                                                        |
| - RLC sequence number                                                                                     |           | Current RLC SN+2                                                                         |
| - RB identity                                                                                             |           | 3                                                                                        |
| - RLC sequence number                                                                                     |           | Current RLC SN + 2                                                                       |
| - RB identity                                                                                             |           | 4                                                                                        |
| - RLC sequence number                                                                                     |           | Current RLC SN + 2                                                                       |
| Integrity protection mode info                                                                            |           |                                                                                          |
| - Integrity protection mode command                                                                       |           | Start                                                                                    |
| <ul> <li>Downlink integrity protection activation info</li> <li>Integrity protection algorithm</li> </ul> |           | Not Present<br>UIA1                                                                      |
| - Integrity protection agontum - Integrity protection initialisation number                               |           | SS selects an arbitrary 32 bits number for                                               |
| integrity protection initialisation number                                                                |           | FRESH                                                                                    |
| CN domain identity                                                                                        |           | Supported domain                                                                         |
| UE system specific security capability                                                                    | A1        | Not Checked                                                                              |
| UE system specific security capability                                                                    | A2        |                                                                                          |
| - Inter-RAT UE security capability                                                                        |           |                                                                                          |
| - CHOICE system                                                                                           |           | GSM                                                                                      |
| - GSM security capability                                                                                 |           | The indicated algorithms must be the same as                                             |
|                                                                                                           |           | the algorithms supported by the UE as indicated                                          |
|                                                                                                           |           | in the IE " UE system specific capability " in the                                       |
|                                                                                                           |           | RRC CONNECTION SETUP COMPLETE                                                            |
|                                                                                                           | ]         | message.                                                                                 |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

Contents of SECURITY MODE COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.                                                           |
| Integrity check info                               | -                                                                                                                                                                                                    |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                         |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in SECURITY MODE                                                                                                                                                       |
|                                                    | COMMAND message, this IE must be absent. Else, SS                                                                                                                                                    |
|                                                    | checks this IE for the presence of activation times for all                                                                                                                                          |
|                                                    | ciphered uplink RLC-UM and RLC-AM RBs.                                                                                                                                                               |

#### Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| CN domain identity            | Checked to see if set to supported CN domain as specified in the IXIT statements                                                                                                                     |
| NAS message                   | Set according to that indicated in specific message content clause                                                                                                                                   |
| Measured results on RACH      | Not checked                                                                                                                                                                                          |

# 9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2kbps, the DL reference measurement channel for BTFD, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

# 9.2.1 Default Message Contents for RF (FDD)

Contents of Activate RB Test Mode message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 44h            |

Contents of Close UE Test Loop message (UE test loop mode 1 without Dummy DCCH transmission)

| Information Element          | Value/remark    |
|------------------------------|-----------------|
| Protocol discriminator       | F (Length 1/2)  |
| Skip indicator               | 0 (Length 1/2)  |
| Message Type                 | 40h             |
| UE test loop mode            | 00h             |
| UE test loop mode 1 LB setup | 03h 00h F4h 0Ah |

Contents of Close UE Test Loop message (UE test loop mode 2 without Dummy DCCH transmission)

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 40h            |
| UE test loop mode      | 01h            |

#### Contents of Open UE Test Loop message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 42h            |

#### Contents of PAGING TYPE 1 message: TM (CS)

| Information Element                             | Value/remark                                              |  |
|-------------------------------------------------|-----------------------------------------------------------|--|
| Message Type                                    |                                                           |  |
| Paging record list                              |                                                           |  |
| -Paging record                                  |                                                           |  |
| <ul> <li>CHOICE Used paging identity</li> </ul> | CN identity                                               |  |
| - Paging cause                                  | Terminating Streaming Call                                |  |
| - CN domain identity                            | CS domain                                                 |  |
| - CHOICE UE identity                            |                                                           |  |
| - IMSI (GSM-MAP)                                | Set to the same octet string as in the IMSI stored in the |  |
|                                                 | USIM card                                                 |  |
| BCCH modification info                          | Not Present                                               |  |

#### Contents of PAGING TYPE 1 message: TM (PS)

| Information Element           | Value/remark                                              |  |  |
|-------------------------------|-----------------------------------------------------------|--|--|
| Message Type                  |                                                           |  |  |
| Paging record list            |                                                           |  |  |
| -Paging record                |                                                           |  |  |
| - CHOICE Used paging identity | CN identity                                               |  |  |
| - Paging cause                | Terminating Interactive Call                              |  |  |
| - CN domain identity          | PS domain                                                 |  |  |
| - CHOICE UE identity          |                                                           |  |  |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the |  |  |
|                               | USIM card                                                 |  |  |
| BCCH modification info        | Not Present                                               |  |  |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports CS RAB for Test Loop Mode1)

| Information Element                                                                 | Value/remark                                                 | Version |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Message Type                                                                        |                                                              |         |
| RRC transaction identifier                                                          | Arbitrarily selects an integer between 0 and 3               |         |
| Integrity check info                                                                | ,                                                            |         |
| <ul> <li>message authentication code</li> </ul>                                     | SS calculates the value of MAC-I for this message            |         |
|                                                                                     | and writes to this IE. The first/ leftmost bit of the bit    |         |
|                                                                                     | string contains the most significant bit of the MAC-         |         |
| DDC manage anguance number                                                          | Consocided the value of this IF from its internal            |         |
| - RRC message sequence number                                                       | SS provides the value of this IE, from its internal counter. |         |
| Integrity protection mode info                                                      | Not Present                                                  |         |
| Ciphering mode info                                                                 | Not Present                                                  |         |
| Activation time                                                                     | (256+CFN-(CFN MOD 8 + 8))MOD 256                             |         |
| New U-RNTI                                                                          | Not Present                                                  |         |
| New C-RNTI                                                                          | Not Present                                                  |         |
| New DSCH-RNTI                                                                       | Not Present                                                  |         |
| New H-RNTI                                                                          | Not Present                                                  | REL-5   |
| RRC State indicator                                                                 | CELL_DCH                                                     |         |
| UTRAN DRX cycle length coefficient                                                  | Not Present                                                  |         |
| CN information info URA identity                                                    | Not Present Not Present                                      |         |
| CHOICE specification mode                                                           | Complete specification                                       | REL-5   |
| - Complete specification                                                            | Complete apcomodition                                        | REL-5   |
| - Signalling RB information to setup                                                | Not Present                                                  | 0       |
| - RAB information for setup list                                                    |                                                              |         |
| - RAB information for setup                                                         |                                                              |         |
| - RAB info                                                                          |                                                              |         |
| - RAB identity                                                                      | 0000 0001B                                                   |         |
|                                                                                     | The first/ leftmost bit of the bit string contains the       |         |
| 011                                                                                 | most significant bit of the RAB identity.                    |         |
| - CN domain identity                                                                | CS domain Not Present                                        |         |
| <ul> <li>NAS Synchronization Indicator</li> <li>Re-establishment timer</li> </ul>   | UseT314                                                      |         |
| - RB information to setup list                                                      | 0361314                                                      |         |
| - RB information to setup                                                           |                                                              |         |
| - RB identity                                                                       | 10                                                           |         |
| - PDCP info                                                                         | Not Present                                                  |         |
| <ul> <li>CHOICE RLC info type</li> </ul>                                            | RLC info                                                     |         |
| - CHOICE Uplink RLC mode                                                            | TM RLC                                                       |         |
| - Transmission RLC discard                                                          | Not Present                                                  |         |
| - Segmentation indication                                                           | FALSE                                                        |         |
| <ul> <li>CHOICE Downlink RLC mode</li> <li>Segmentation indication</li> </ul>       | TM RLC<br>FALSE                                              |         |
| - RB mapping info                                                                   | I ALGE                                                       |         |
| - Information for each multiplexing                                                 |                                                              |         |
| option                                                                              |                                                              |         |
| - RLC logical channel mapping                                                       | Not Present                                                  |         |
| indicator                                                                           |                                                              |         |
| - Number of uplink RLC logical                                                      | 1                                                            |         |
| channels                                                                            | DCH                                                          |         |
| - Uplink transport channel type                                                     | DCH<br>1                                                     |         |
| <ul> <li>UL Transport channel identity</li> <li>Logical channel identity</li> </ul> | Not Present                                                  |         |
| - CHOICE RLC size list                                                              | Configured                                                   |         |
| - MAC logical channel priority                                                      | 7                                                            |         |
| - Downlink RLC logical channel info                                                 |                                                              |         |
| <ul> <li>Number of downlink RLC logical</li> </ul>                                  | 1                                                            |         |
| channels                                                                            |                                                              |         |
| - Downlink transport channel type                                                   | DCH                                                          |         |
| - DL DCH Transport channel identity                                                 | 6                                                            |         |
| - DL DSCH Transport channel                                                         | Not Present                                                  |         |
| identity                                                                            | Not Present                                                  |         |
| - Logical channel identity  RB information to be affected list                      | Not Present                                                  |         |
| Downlink counter synchronisation info                                               | Not Present                                                  |         |
| DOMINING CONTROL SAUCHIONISMICH HINC                                                |                                                              |         |

| Information Element                            | Value/remark                 | Version |
|------------------------------------------------|------------------------------|---------|
| transport channels                             |                              |         |
| - PRACH TFCS                                   | Not Present                  |         |
| - CHOICE mode                                  | FDD                          |         |
| - TFC subset                                   | Not Present                  |         |
| - UL DCH TFCS                                  |                              |         |
| - CHOICE TFCI signalling                       | Normal                       |         |
| - TFCI Field 1 information                     |                              |         |
| - CHOICE TFCS representation                   | Complete reconfiguration     |         |
| - TFCS complete reconfigure                    |                              |         |
| information                                    | O Lit OTEO                   |         |
| - CHOICE CTFC Size                             | 2 bit CTFC                   |         |
| - CTFC information<br>- 2bit CTFC              | 4 TFCs                       |         |
|                                                | 0                            |         |
| -Power offset Information                      | Operation of Operations      |         |
| - CHOICE Gain Factors                          | Computed Gain Factors        |         |
| - Reference TFC ID<br>- CHOICE mode            | 0<br>FDD                     |         |
| - Power offset P <sub>p-m</sub>                | Not Present                  |         |
| - 2bit CTFC                                    | 2                            |         |
| - Power offset Information                     | <u> -</u>                    |         |
| - CHOICE Gain Factors                          | Computed Gain Factors        |         |
| - Reference TFC ID                             | 0                            |         |
| - CHOICE mode                                  | FDD                          |         |
| - Power offset P <sub>p-m</sub>                | Not Present                  |         |
| - 2bit CTFC                                    | 1                            |         |
| - Power offset Information                     |                              |         |
| - CHOICE Gain Factors                          | Computed Gain Factors        |         |
| - Reference TFC ID                             | 0                            |         |
| - CHOICE mode                                  | FDD                          |         |
| - Power offset P <sub>p-m</sub>                | Not Present                  |         |
| - 2bit CTFC                                    | 3                            |         |
| - Power offset Information                     | Signallad Cain Factors       |         |
| - CHOICE Gain Factors - CHOICE mode            | Signalled Gain Factors FDD   |         |
| - Gain factor ßc                               | 8                            |         |
| - Gain factor &d                               | 15                           |         |
| - Reference TFC ID                             | 0                            |         |
| - CHOICE mode                                  | FDD                          |         |
| - Power offset P <sub>p-m</sub>                | Not Present                  |         |
| Deleted UL TrCH information list               | Not Present                  |         |
| Added or Reconfigured UL TrCH information      | 1                            |         |
| list                                           |                              |         |
| - Added or Reconfigured UL TrCH                |                              |         |
| information                                    | DOLL                         |         |
| - Uplink transport channel type                | DCH                          |         |
| - UL Transport channel identity - TFS          | 1                            |         |
| - CHOICE Transport channel type                | Dedicated transport channels |         |
| - Dynamic Transport Format                     | Dedicated transport Charmers |         |
| Information                                    |                              |         |
| - RLC size                                     | 244 bits                     |         |
| - Number of TBs and TTI List                   | 2                            |         |
| - Transmission Time Interval                   | Not Present                  |         |
| <ul> <li>Number of Transport blocks</li> </ul> | 0                            |         |
| - Transmission Time Interval                   | Not Present                  |         |
| - Number of Transport blocks                   | 1                            |         |
| - CHOICE Logical Channel List                  | ALL                          |         |
| - Semi-static Transport Format                 |                              |         |
| Information                                    | 20                           |         |
| - Transmission time interval                   | 20<br>Convolutional          |         |
| - Type of channel coding<br>- Coding Rate      | Convolutional 1/3            |         |
| - Rate matching attribute                      | 256                          |         |
| - CRC size                                     | 16                           |         |
| CHOICE mode                                    | FDD                          |         |
| - CPCH set ID                                  | Not Present                  |         |
| - Added or Reconfigured TrCH information       | Not Present                  |         |
|                                                |                              |         |

| Information Element                                                      | Value/remark         | Version |
|--------------------------------------------------------------------------|----------------------|---------|
| for DRAC list                                                            | raidonoman           | 70.0.0  |
| DL Transport channel information common                                  |                      |         |
| for all transport channel                                                |                      |         |
| - SCCPCH TFCS                                                            | Not Present          |         |
| - CHOICE mode                                                            | FDD                  |         |
| - CHOICE DL parameters                                                   | Same as UL           |         |
| Deleted DL TrCH information list                                         | Not Present          |         |
| Added or Reconfigured DL TrCH information list                           | 1                    |         |
| - Added or Reconfigured DL TrCH                                          |                      |         |
| information                                                              |                      |         |
| - Downlink transport channel type                                        | DCH                  |         |
| - DL Transport channel identity                                          | 6                    |         |
| - CHOICE DL parameters                                                   | Same as UL           |         |
| <ul> <li>Uplink transport channel type</li> </ul>                        | DCH                  |         |
| - UL TrCH identity                                                       | 1                    |         |
| - DCH quality target                                                     |                      |         |
| - BLER Quality value                                                     | -2.0                 |         |
| Frequency info Maximum allowed UL TX power                               | Not Present<br>33dBm |         |
| CHOICE channel requirement                                               | Uplink DPCH info     |         |
| - Uplink DPCH power control info                                         | - Crimio             |         |
| - CHOICE mode                                                            | FDD                  |         |
| - DPCCH power offset                                                     | -6dB                 |         |
| - PC Preamble                                                            | 1 frame              |         |
| - SRB delay                                                              | 7 frames             |         |
| - Power Control Algorithm                                                | Algorithm1           |         |
| - TPC step size                                                          | 1dB                  | DEL 6   |
| - Δ <sub>ACK</sub>                                                       | Not Present          | REL-5   |
| - Anack                                                                  | Not Present          | REL-5   |
| - Ack-Nack repetition factor - CHOICE mode                               | Not Present FDD      | REL-5   |
| - Scrambling code type                                                   | Long                 |         |
| - Scrambling code number                                                 | 0 (0 to 16777215)    |         |
| - Number of DPDCH                                                        | 1                    |         |
| - spreading factor                                                       | 64                   |         |
| - TFCI existence                                                         | TRUE                 |         |
| - Number of FBI bit                                                      | Not Present(0)       |         |
| - Puncturing Limit                                                       | 1                    |         |
| CHOICE Mode                                                              | FDD<br>Not Present   |         |
| - Downlink PDSCH Information                                             | Not Present          | DEL E   |
| Downlink HS-PDSCH Information  Downlink information common for all radio | Not Present          | REL-5   |
| links                                                                    |                      |         |
| - Downlink DPCH info common for all                                      |                      |         |
| RL                                                                       |                      |         |
| - Timing indicator                                                       | Maintain             |         |
| - CFN-targetSFN frame offset                                             | Not Present          |         |
| - Downlink DPCH power control                                            |                      |         |
| information                                                              | - FDD                |         |
| - CHOICE mode<br>- DPC mode                                              | FDD 0 (cingle)       |         |
| - CHOICE mode                                                            | 0 (single)<br>FDD    |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                                  | 0                    |         |
| - DL rate matching restriction                                           | Not Present          |         |
| information                                                              |                      |         |
| - Spreading factor                                                       | 128                  |         |
| - Fixed or Flexible Position                                             | Fixed                |         |
| - TFCI existence                                                         | TRUE                 |         |
| - CHOICE SF                                                              | 128                  |         |
| - Number of bits for Pilot bits                                          | 8                    |         |
| - CHOICE mode - DPCH compressed mode info                                | FDD<br>Not Present   |         |
| - TX Diversity mode                                                      | None                 |         |
| - SSDT information                                                       | Not Present          |         |
| - Default DPCH Offset Value                                              | Not Present          |         |
| Downlink information per radio link list                                 |                      |         |
| F                                                                        | 1                    | 1       |

| Information Element                                    | Value/remark                               | Version |
|--------------------------------------------------------|--------------------------------------------|---------|
| - Downlink information for each radio link             |                                            |         |
| - CHOICE mode                                          | FDD                                        |         |
| - Primary CPICH info                                   |                                            |         |
| <ul> <li>Primary scrambling code</li> </ul>            | 100                                        |         |
| - PDSCH with SHO DCH info                              | Not Present                                |         |
| - PDSCH code mapping                                   | Not Present                                |         |
| <ul> <li>Downlink DPCH info for each RL</li> </ul>     |                                            |         |
| - CHOICE mode                                          | FDD                                        |         |
| <ul> <li>Primary CPICH usage for channel</li> </ul>    | Primary CPICH may be used                  |         |
| estimation                                             |                                            |         |
| <ul> <li>DPCH frame offset</li> </ul>                  | Set to value Default DPCH Offset Value (as |         |
|                                                        | currently stored in SS) mod 38400          |         |
| <ul> <li>Secondary CPICH info</li> </ul>               | Not Present                                |         |
| <ul> <li>DL channelisation code</li> </ul>             |                                            |         |
| <ul> <li>Secondary scrambling code</li> </ul>          | Not Present                                |         |
| <ul> <li>Spreading factor</li> </ul>                   | 128                                        |         |
| - Code number                                          | 96                                         |         |
| <ul> <li>Scrambling code change</li> </ul>             | No change                                  |         |
| <ul> <li>TPC combination index</li> </ul>              | 0                                          |         |
| - SSDT Cell Identity                                   | Not Present                                |         |
| <ul> <li>Closed loop timing adjustment mode</li> </ul> | Not Present                                |         |
| <ul> <li>SCCPCH information for FACH</li> </ul>        | Not Present                                |         |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)

| Information Element                                | Value/remark                                                                   | Version      |
|----------------------------------------------------|--------------------------------------------------------------------------------|--------------|
| Message Type                                       |                                                                                |              |
| RRC transaction identifier                         | Arbitrarily selects an integer between 0                                       | 1            |
|                                                    | and 3                                                                          |              |
| Integrity check info                               | 00                                                                             |              |
| - message authentication code                      | SS calculates the value of MAC-I for this                                      |              |
|                                                    | message and writes to this IE. The first/                                      |              |
|                                                    | leftmost bit of the bit string contains the                                    |              |
| PPC massage seguence number                        | most significant bit of the MAC-I.  SS provides the value of this IE, from its |              |
| - RRC message sequence number                      | internal counter.                                                              |              |
| Integrity protection mode info                     | Not Present                                                                    |              |
| Ciphering mode info                                | Not Present                                                                    |              |
| Activation time                                    | Not Present                                                                    |              |
| New U-RNTI                                         | Not Present                                                                    |              |
| New C-RNTI                                         | Not Present                                                                    |              |
| New DSCH-RNTI                                      | Not Present                                                                    |              |
| New H-RNTI                                         | Not Present                                                                    | REL-5        |
| RRC State indicator                                | CELL_DCH                                                                       |              |
| UTRAN DRX cycle length coefficient                 | Not Present                                                                    |              |
| CN information info                                | Not Present Not Present                                                        |              |
| URA identity                                       | Complete specification                                                         | REL-5        |
| CHOICE specification mode - Complete specification | Complete specification                                                         | REL-5        |
| Signalling RB information to setup                 | Not Present                                                                    | IVEL-0       |
| - RAB information for setup list                   | NOT LESCH                                                                      | <del> </del> |
| - RAB information for setup                        |                                                                                |              |
| - RAB info                                         | (AM DTCH for PS domain)                                                        |              |
| - RAB identity                                     | 0000 0101B                                                                     |              |
| ,                                                  | The first/ leftmost bit of the bit string                                      |              |
|                                                    | contains the most significant bit of the                                       |              |
|                                                    | RAB identity.                                                                  |              |
| - CN domain identity                               | PS domain                                                                      |              |
| - NAS Synchronization Indicator                    | Not Present                                                                    |              |
| - Re-establishment timer                           | useT315                                                                        |              |
| - RB information to setup - RB identity            | 20                                                                             |              |
| - RB identity - PDCP info                          | 20                                                                             |              |
| - Support for lossless SRNS relocation             | FALSE                                                                          |              |
| - Max PDCP SN window size                          | Not present                                                                    |              |
| - PDCP PDU header                                  | Absent                                                                         |              |
| - Header compression information                   | Not present                                                                    |              |
| - CHOICE RLC info type                             | RLC info                                                                       |              |
| - CHOICE Uplink RLC mode                           | AM RLC                                                                         |              |
| - Transmission RLC discard                         |                                                                                | 1            |
| - CHOICE SDU discard mode                          | No Discard                                                                     |              |
| - MAX_DAT                                          | 15                                                                             | 1            |
| - Transmission window size                         | 128                                                                            | 1            |
| - Timer_RST<br>- Max_RST                           | 500                                                                            |              |
| - Max_R31<br>- Polling info                        | -                                                                              | ]            |
| - Timer_poll_prohibit                              | 200                                                                            | 1            |
| - Timer_poll                                       | 200                                                                            |              |
| - Poll_PDU                                         | Not Present                                                                    | 1            |
| - Poll_SDU                                         | 1                                                                              | 1            |
| - Last transmission PDU poll                       | TRUE                                                                           | 1            |
| - Last retransmission PDU poll                     | TRUE                                                                           |              |
| - Poll_Windows                                     | 99                                                                             | 1            |
| - Timer_poll_periodic                              | Not Present                                                                    | 1            |
| - CHOICE Downlink RLC mode                         | AM RLC                                                                         |              |
| - In-sequence delivery                             | TRUE                                                                           |              |
| Receiving window size     Downlink RLC status info | 128                                                                            |              |
| - Downlink RLC status into - Timer_status_prohibit | 200                                                                            | ]            |
| - Timer_status_profiloit<br>- Timer_EPC            | Not Present                                                                    | 1            |
| - Missing PDU indicator                            | TRUE                                                                           |              |
|                                                    | · -                                                                            | , I          |

| Information Element                                                                         | Value/remark                               | Version |
|---------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| - Timer_STATUS_periodic                                                                     | Not Present                                |         |
| - RB mapping info                                                                           |                                            |         |
| <ul> <li>Information for each multiplexing option</li> </ul>                                | 2 RBMuxOptions                             |         |
| - RLC logical channel mapping indicator                                                     | Not Present                                |         |
| <ul> <li>Number of uplink RLC logical channels</li> </ul>                                   | 1                                          |         |
| - Uplink transport channel type                                                             | DCH                                        |         |
| - UL Transport channel identity                                                             | 1                                          |         |
| - Logical channel identity                                                                  | Not Present                                |         |
| - CHOICE RLC size list                                                                      | Configured                                 |         |
| <ul> <li>MAC logical channel priority</li> <li>Downlink RLC logical channel info</li> </ul> | 8                                          |         |
| Number of downlink RLC logical                                                              | 1                                          |         |
| channels                                                                                    |                                            |         |
| - Downlink transport channel type                                                           | DCH                                        |         |
| - DL DCH Transport channel identity                                                         | 6                                          |         |
| - DL DSCH Transport channel identity                                                        | Not Present                                |         |
| - Logical channel identity                                                                  | Not Present                                |         |
| - RLC logical channel mapping indicator                                                     | Not Present                                |         |
| - Number of uplink RLC logical channels                                                     | 1                                          |         |
| - Uplink transport channel type                                                             | RACH                                       |         |
| <ul> <li>UL Transport channel identity</li> </ul>                                           | Not Present                                |         |
| <ul> <li>Logical channel identity</li> </ul>                                                | 7                                          |         |
| - CHOICE RLC size list                                                                      | Explicit list                              |         |
| - RLC size index                                                                            | Reference to TS34.108 clause 6             |         |
| MAQ Is at 1 1 1 1 1 1 1                                                                     | Parameter Set                              |         |
| - MAC logical channel priority                                                              | 8                                          |         |
| - Downlink RLC logical channel info<br>- Number of downlink RLC logical                     | 1                                          |         |
| channels                                                                                    |                                            |         |
| - Downlink transport channel type                                                           | FACH                                       |         |
| - DCH Transport channel identity                                                            | Not Present                                |         |
| - DL DSCH Transport channel identity                                                        | Not Present                                |         |
| - Logical channel identity                                                                  | 7                                          |         |
| RB information to be affected list                                                          | Not Present                                |         |
| Downlink counter synchronisation info                                                       | Not Present                                |         |
| UL Transport channel information for all                                                    |                                            |         |
| transport channels                                                                          |                                            |         |
| - PRACH TFCS                                                                                | Not Present                                |         |
| - CHOICE mode                                                                               | FDD                                        |         |
| - TFC subset                                                                                | Not Present                                |         |
| - UL DCH TFCS                                                                               | Normal                                     |         |
| - CHOICE TFCI signalling                                                                    | Normal                                     |         |
| - TFCI Field 1 information - CHOICE TFCS representation                                     | Complete reconfiguration                   |         |
| - TFCS complete reconfigure                                                                 | Complete reconliguration                   |         |
| information                                                                                 |                                            |         |
| - CHOICE CTFC Size                                                                          | Number of bits used must be enough to      |         |
| 0.10.02 011 0 0.20                                                                          | cover all combinations of CTFC from        |         |
|                                                                                             | TS34.108 clause 6.10.2.4 Parameter Set.    |         |
| - CTFC information                                                                          | This IE is repeated for TFC numbers and    |         |
|                                                                                             | reference to TS34.108 clause 6.10.2.4      |         |
|                                                                                             | Parameter Set                              |         |
| - CTFC                                                                                      | Reference to TS34.108 clause 6.10.2.4      |         |
|                                                                                             | Parameter Set                              |         |
| <ul> <li>Power offset information</li> </ul>                                                |                                            |         |
| - CHOICE Gain Factors                                                                       | Computed Gain Factors(The last TFC is      |         |
|                                                                                             | set to Signalled Gain Factors)             |         |
| - Gain factor βc                                                                            | 11 (below 64 kbps)                         |         |
|                                                                                             | 9 (higher than 64 kbps) (Not Present if    |         |
|                                                                                             | the CHOICE Gain Factors is set to          |         |
| Opin forton Od                                                                              | Computed Gain Factors)                     |         |
| - Gain factor βd                                                                            | 15 (Not Present if the CHOICE Gain Factors |         |
|                                                                                             | (Not Present if the CHOICE Gain Factors    |         |
| - Reference TFC ID                                                                          | is set to Computed Gain Factors)           |         |
| - CHOICE mode                                                                               | FDD                                        |         |
| - Power offset P p-m                                                                        | Not Present                                |         |
| i owei olisetti p-ill                                                                       | I TOU I TOUCHT                             |         |

| Information Element                                                                                                                   | Value/remark                                                                                                             | Version |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------|
| Deleted UL TrCH information list                                                                                                      | Not Present                                                                                                              |         |
| Added or Reconfigured UL TrCH information list Added or Reconfigured UL TrCH information - Uplink transport channel type              | 1 1 DCH added, 1 DCH reconfigured DCH                                                                                    |         |
| - UL Transport channel identity     - TFS                                                                                             | 1                                                                                                                        |         |
| <ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>                                       | Dedicated transport channels                                                                                             |         |
| - RLC Size                                                                                                                            | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| <ul><li>Number of TBs and TTI List</li><li>Transmission Time Interval</li><li>Number of Transport blocks</li></ul>                    | (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10                                      |         |
| - CHOICE Logical Channel list     - Semi-static Transport Format information                                                          | Parameter Set<br>All                                                                                                     |         |
| - Transmission time interval                                                                                                          | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| - Type of channel coding                                                                                                              | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| - Coding Rate                                                                                                                         | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| - Rate matching attribute                                                                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| - CRC size                                                                                                                            | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| <ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> <li>TFS</li> </ul>                                 | DCH<br>5                                                                                                                 |         |
| <ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> </ul>                     | Dedicated transport channels  Reference to TS34.108 clause 6.10                                                          |         |
| - Number of TBs and TTI List                                                                                                          | Parameter Set (This IE is repeated for TFI number.)                                                                      |         |
| Transmission Time Interval     Number of Transport blocks                                                                             | Not Present Reference to TS34.108 clause 6.10 Parameter Set                                                              |         |
| <ul> <li>CHOICE Logical Channel list</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul> | All  Reference to TS34.108 clause 6.10                                                                                   |         |
| - Type of channel coding                                                                                                              | Parameter Set Reference to TS34.108 clause 6.10 Parameter Set                                                            |         |
| - Coding Rate                                                                                                                         | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| - Rate matching attribute                                                                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| - CRC size                                                                                                                            | Reference to TS34.108 clause 6.10 Parameter Set                                                                          |         |
| CHOICE mode                                                                                                                           | FDD                                                                                                                      |         |
| <ul> <li>CPCH set ID</li> <li>Added or Reconfigured TrCH information for DRAC list</li> </ul>                                         | Not Present<br>Not Present                                                                                               |         |
| DL Transport channel information common for all transport channel                                                                     |                                                                                                                          |         |
| - SCCPCH TFCS                                                                                                                         | Not Present                                                                                                              |         |
| <ul><li>CHOICE mode</li><li>CHOICE DL parameters</li><li>DL DCH TFCS</li></ul>                                                        | FDD<br>Explicit                                                                                                          |         |
| - CHOICE TFCI Signalling - TFCI Field 1 Information                                                                                   | Normal                                                                                                                   |         |
| - CHOICE TFCS representation - TFCS complete reconfigure                                                                              | Complete reconfiguration                                                                                                 |         |
| - CHOICE CTFC Size                                                                                                                    | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6.10.2.4 Parameter Set. |         |
|                                                                                                                                       | i didinotor oot.                                                                                                         |         |

| Information Element                                                                               | Value/remark                                    | Version |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|
| - CTFC information                                                                                | This IE is repeated for TFC numbers and         | 70.00.  |
|                                                                                                   | reference to TS34.108 clause 6.10.2.4           |         |
| - CTFC                                                                                            | Reference to TS34.108 clause 6.10.2.4           |         |
| Dower offeet information                                                                          | Parameter Set                                   |         |
| - Power offset information Added or Reconfigured DL TrCH information list                         | Not Present                                     |         |
| Added or Reconfigured DL TrCH information list  Added or Reconfigured DL TrCH information         | 2 TrCHs(DCH for DCCH and DCH for                |         |
| 7 Added of Neconinguiod BE Troit information                                                      | DTCH)                                           |         |
| - Downlink transport channel type                                                                 | DCH '                                           |         |
| <ul> <li>DL Transport channel identity</li> </ul>                                                 | 10                                              |         |
| - CHOICE DL parameters                                                                            | Same as UL                                      |         |
| - Uplink transport channel type                                                                   | DCH                                             |         |
| <ul> <li>UL TrCH identity</li> <li>DCH quality target</li> </ul>                                  | 5                                               |         |
| - BLER Quality value                                                                              | -2.0                                            |         |
| Downlink transport channel type                                                                   | DCH                                             |         |
| <ul> <li>DL Transport channel identity</li> </ul>                                                 | 6                                               |         |
| <ul> <li>CHOICE DL parameters</li> </ul>                                                          | Explicit                                        |         |
| - TFS                                                                                             |                                                 |         |
| <ul><li>CHOICE Transport channel type</li><li>Dynamic transport format information</li></ul>      | Dedicated transport channel                     |         |
| - RLC Size                                                                                        | Reference to TS34.108 clause 6.10 Parameter Set |         |
| - Number of TBs and TTI List                                                                      | (This IE is repeated for TFI number.)           |         |
| - Dynamic transport format information                                                            |                                                 |         |
| - Transmission Time Interval                                                                      | Not Present                                     |         |
| - Number of Transport blocks                                                                      | Reference to TS34.108 clause 6.10               |         |
| CHOICE Logical Channel list                                                                       | Parameter Set                                   |         |
| <ul> <li>CHOICE Logical Channel list</li> <li>Semi-static Transport Format information</li> </ul> | All                                             |         |
| - Transmission time interval                                                                      | Reference to TS34.108 clause 6.10               |         |
| Transmission units mad tal                                                                        | Parameter Set                                   |         |
| - Type of channel coding                                                                          | Reference to TS34.108 clause 6.10               |         |
|                                                                                                   | Parameter Set                                   |         |
| - Coding Rate                                                                                     | Reference to TS34.108 clause 6.10               |         |
| - Rate matching attribute                                                                         | Parameter Set Reference to TS34.108 clause 6.10 |         |
| - Rate matching attribute                                                                         | Parameter Set                                   |         |
| - CRC size                                                                                        | Reference to TS34.108 clause 6.10               |         |
|                                                                                                   | Parameter Set                                   |         |
| <ul> <li>DCH quality target</li> </ul>                                                            |                                                 |         |
| - BLER Quality value                                                                              | -2.0                                            |         |
| Frequency info Maximum allowed UL TX power                                                        | Not Present<br>33dBm                            |         |
| CHOICE channel requirement                                                                        | Uplink DPCH info                                |         |
| - Uplink DPCH power control info                                                                  | Opinik 21 Offinio                               |         |
| - CHOICE mode                                                                                     | FDD                                             |         |
| - DPCCH power offset                                                                              | -6dB                                            |         |
| - PC Preamble                                                                                     | 1 frame                                         |         |
| - SRB delay                                                                                       | 7 frames                                        |         |
| - Power Control Algorithm                                                                         | Algorithm1 1dB                                  |         |
| - TPC step size<br>- Δαςκ                                                                         | Not Present                                     | REL-5   |
| - Δack<br>- Δnack                                                                                 | Not Present                                     | REL-5   |
| - Ack-Nack repetition factor                                                                      | Not Present                                     | REL-5   |
| - CHOICE mode                                                                                     | FDD                                             |         |
| - Scrambling code type                                                                            | Long                                            |         |
| - Scrambling code number                                                                          | 0 (0 to 16777215)                               |         |
| - Number of DPDCH                                                                                 | 1                                               |         |
| <ul> <li>spreading factor</li> <li>TFCI existence</li> </ul>                                      | 64<br>  TRUE                                    |         |
| - Number of FBI bit                                                                               | Not Present(0)                                  |         |
| - Puncturing Limit                                                                                | 1                                               |         |
| CHOICE Mode                                                                                       | FDD                                             |         |
| - Downlink PDSCH information                                                                      | Not Present                                     |         |
| Downlink HS-PDSCH Information                                                                     | Not Present                                     | REL-5   |
| Downlink information common for all radio links                                                   | I                                               | [       |

| Information Element                                                | Value/remark                             | Version |
|--------------------------------------------------------------------|------------------------------------------|---------|
| - Downlink DPCH info common for all RL                             |                                          |         |
| - Timing indicator                                                 | Maintain                                 |         |
| <ul> <li>CFN-targetSFN frame offset</li> </ul>                     | Not Present                              |         |
| - Downlink DPCH power control                                      |                                          |         |
| information                                                        |                                          |         |
| - CHOICE mode                                                      | FDD                                      |         |
| - DPC mode                                                         | 0 (single)                               |         |
| - CHOICE mode                                                      | FDD                                      |         |
| - Power offset Ppilot-DPDCH                                        | 0                                        |         |
| - DL rate matching restriction information                         | Not Present                              |         |
| - Spreading factor                                                 | Reference to TS34.108 clause 6.10        |         |
| oproading factor                                                   | Parameter Set                            |         |
| - Fixed or Flexible Position                                       | Reference to TS34.108 clause 6.10        |         |
| TIXOG OF FIGNISIO F COROTT                                         | Parameter Set                            |         |
| - TFCI existence                                                   | Reference to TS34.108 clause 6.10        |         |
| - 11 Of existence                                                  | Parameter Set                            |         |
| - CHOICE SF                                                        | Reference to TS34.108 clause 6.10        |         |
| - CHOICE SI                                                        | Parameter Set                            |         |
| - CHOICE mode                                                      | FDD                                      |         |
| - DPCH compressed mode info                                        | Not Present                              |         |
| - TX Diversity mode                                                | None                                     |         |
| - SSDT information                                                 | Not Present                              |         |
| - Default DPCH Offset Value                                        | Not Present                              |         |
| Downlink information per radio link list                           | Not Flesent                              |         |
| - Downlink information for each radio link                         |                                          |         |
| - CHOICE mode                                                      | FDD                                      |         |
| - Primary CPICH info                                               | FDD                                      |         |
| - Primary Scrambling code                                          | 100                                      |         |
| - Primary scrambling code - PDSCH with SHO DCH info                | Not Present                              |         |
|                                                                    | Not Present                              |         |
| - PDSCH code mapping                                               | Not Present                              |         |
| - Downlink DPCH info for each RL                                   | FDD                                      |         |
| - CHOICE mode                                                      | • = =                                    |         |
| <ul> <li>Primary CPICH usage for channel<br/>estimation</li> </ul> | Primary CPICH may be used                |         |
| - DPCH frame offset                                                | Cat to value Default DDCI I Offeet Value |         |
| - DPCH frame offset                                                | Set to value Default DPCH Offset Value   |         |
| Secondary CDICH into                                               | (as currently stored in SS) mod 38400    |         |
| - Secondary CPICH info                                             | Not Present                              |         |
| - DL channelisation code                                           | Not propert                              |         |
| - Secondary scrambling code                                        | Not present                              |         |
| - Spreading factor                                                 | Reference to TS34.108 clause 6.10        |         |
| Codo accessor                                                      | Parameter Set                            |         |
| - Code number                                                      | Depends upon radio bearer used.          |         |
| - Scrambling code change                                           | No change                                |         |
| - TPC combination index                                            | 0                                        |         |
| - SSDT Cell Identity                                               | Not Present                              |         |
| - Closed loop timing adjustment mode                               | Not Present                              |         |
| - SCCPCH information for FACH                                      | Not Present                              |         |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports CS RAB for Test Loop Mode 2)

| Information Element                                                                                    | Value/remark                                                                   |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Message Type                                                                                           |                                                                                |
| RRC transaction identifier                                                                             | Arbitrarily selects an integer between 0 and 3                                 |
| Integrity check info                                                                                   |                                                                                |
| - message authentication code                                                                          | SS calculates the value of MAC-I for this                                      |
|                                                                                                        | message and writes to this IE. The first/                                      |
|                                                                                                        | leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number                                                                          | SS provides the value of this IE, from its                                     |
| - NNO message sequence number                                                                          | internal counter.                                                              |
| Integrity protection mode info                                                                         | Not Present                                                                    |
| Ciphering mode info                                                                                    | Not Present                                                                    |
| Activation time                                                                                        | (256+CFN-(CFN MOD 8 + 8))MOD 256                                               |
| New U-RNTI                                                                                             | Not Present                                                                    |
| New C-RNTI                                                                                             | Not Present                                                                    |
| New DSCH-RNTI                                                                                          | Not Present                                                                    |
| RRC State indicator                                                                                    | CELL_DCH                                                                       |
| UTRAN DRX cycle length coefficient CN information info                                                 | Not Present Not Present                                                        |
| URA identity                                                                                           | Not Present                                                                    |
| Signalling RB information to setup                                                                     | Not Present                                                                    |
| RAB information for setup list                                                                         |                                                                                |
| - RAB information for setup                                                                            |                                                                                |
| - RAB info                                                                                             |                                                                                |
| - RAB identity                                                                                         | 0000 0001B                                                                     |
|                                                                                                        | The first/ leftmost bit of the bit string contains                             |
| <b>-</b>                                                                                               | the most significant bit of the RAB identity.                                  |
| - CN domain identity                                                                                   | CS domain                                                                      |
| - NAS Synchronization Indicator                                                                        | Not Present                                                                    |
| <ul><li>Re-establishment timer</li><li>RB information to setup list</li></ul>                          | UseT314                                                                        |
| - RB information to setup                                                                              |                                                                                |
| - RB identity                                                                                          | 10                                                                             |
| - PDCP info                                                                                            | Not Present                                                                    |
| - CHOICE RLC info type                                                                                 | RLC info                                                                       |
| - CHOICE Uplink RLC mode                                                                               | TM RLC                                                                         |
| - Transmission RLC discard                                                                             | Not Present                                                                    |
| - Segmentation indication                                                                              | FALSE                                                                          |
| - CHOICE Downlink RLC mode                                                                             | TM RLC                                                                         |
| <ul><li>Segmentation indication</li><li>RB mapping info</li></ul>                                      | FALSE                                                                          |
| Information for each multiplexing option                                                               |                                                                                |
| - RLC logical channel mapping indicator                                                                | Not Present                                                                    |
| Number of uplink RLC logical channels                                                                  | 1                                                                              |
| - Uplink transport channel type                                                                        | DCH                                                                            |
| <ul> <li>UL Transport channel identity</li> </ul>                                                      | 1                                                                              |
| - Logical channel identity                                                                             | Not Present                                                                    |
| - CHOICE RLC size list                                                                                 | Configured                                                                     |
| - MAC logical channel priority                                                                         | 7                                                                              |
| <ul> <li>Downlink RLC logical channel info</li> <li>Number of downlink RLC logical channels</li> </ul> | 1                                                                              |
| Number of downlink RLC logical channels     Downlink transport channel type                            | DCH                                                                            |
| - DL DCH Transport channel identity                                                                    | 6                                                                              |
| - DL DSCH Transport channel identity                                                                   | Not Present                                                                    |
| - Logical channel identity                                                                             | Not Present                                                                    |
| RB information to be affected list                                                                     | Not Present                                                                    |
| Downlink counter synchronisation info                                                                  | Not Present                                                                    |
| UL Transport channel information for all transport                                                     |                                                                                |
| channels                                                                                               |                                                                                |
| - PRACH TFCS                                                                                           | Not Present                                                                    |
| - CHOICE mode                                                                                          | FDD<br>Not Present                                                             |
| - TFC subset<br>- UL DCH TFCS                                                                          | Not Present                                                                    |
| - OL DCH TPCS - CHOICE TFCI signalling                                                                 | Normal                                                                         |
| - TFCI Field 1 information                                                                             | INOTHIA                                                                        |
| - CHOICE TFCS representation                                                                           | Complete reconfiguration                                                       |
| STIGIGE IT OF TOPTOSOTILATION                                                                          |                                                                                |

| Information Element                               | Value/remark                 |
|---------------------------------------------------|------------------------------|
| - TFCS complete reconfigure information           |                              |
| - CHOICE CTFC Size                                | 2 bit CTFC                   |
| - CTFC information                                | 4 TFCs                       |
| - 2bit CTFC                                       | 0                            |
| - Power offset Information                        |                              |
| - CHOICE Gain Factors                             | Computed Gain Factors        |
| - Reference TFC ID                                | 0                            |
| - CHOICE mode                                     | FDD                          |
| - Power offset P <sub>p-m</sub> - 2bit CTFC       | Not Present 2                |
| - Power offset Information                        | 2                            |
| - CHOICE Gain Factors                             | Computed Gain Factors        |
| - Reference TFC ID                                | 0                            |
| - CHOICE mode                                     | FDD                          |
| - Power offset P <sub>p-m</sub>                   | Not Present                  |
| - 2bit CTFC                                       | 1                            |
| - Power offset Information                        | O-months d O-in Factors      |
| - CHOICE Gain Factors - Reference TFC ID          | Computed Gain Factors        |
| - Reference TFC ID<br>- CHOICE mode               | 0<br>FDD                     |
| - Power offset P <sub>p-m</sub>                   | Not Present                  |
| - 2bit CTFC                                       | 3                            |
| - Power offset Information                        |                              |
| - CHOICE Gain Factors                             | Signalled Gain Factors       |
| - CHOICE mode                                     | FDD                          |
| - Gain factor ßc                                  | 8                            |
| - Gain factor ßd                                  | 15                           |
| - Reference TFC ID                                | 0                            |
| - CHOICE mode<br>- Power offset P <sub>p-m</sub>  | FDD<br>Not Present           |
| Deleted UL TrCH information list                  | Not Present                  |
| Added or Reconfigured UL TrCH information list    | 1                            |
| - Added or Reconfigured UL TrCH information       | ·                            |
| - Uplink transport channel type                   | DCH                          |
| - UL Transport channel identity                   | 1                            |
| - TFS                                             |                              |
| - CHOICE Transport channel type                   | Dedicated transport channels |
| - Dynamic Transport Format Information            | 260 hito                     |
| - RLC size - Number of TBs and TTI List           | 260 bits<br>2                |
| - Transmission Time Interval                      | Not Present                  |
| - Number of Transport blocks                      | 0                            |
| - Transmission Time Interval                      | Not Present                  |
| - Number of Transport blocks                      | 1                            |
| - CHOICE Logical Channel List                     | ALL                          |
| - Semi-static Transport Format Information        |                              |
| - Transmission time interval                      | 20                           |
| - Type of channel coding                          | Convolutional 1/3            |
| - Coding Rate - Rate matching attribute           | 256                          |
| - CRC size                                        | 0                            |
| CHOICE mode                                       | FDD                          |
| - CPCH set ID                                     | Not Present                  |
| - Added or Reconfigured TrCH information for DRAC | Not Present                  |
| list                                              |                              |
| DL Transport channel information common for all   |                              |
| transport channel                                 | l N . B                      |
| - SCCPCH TFCS                                     | Not Present                  |
| - CHOICE mode - CHOICE DL parameters              | FDD<br>Same as UL            |
| Deleted DL TrCH information list                  | Not Present                  |
| Added or Reconfigured DL TrCH information list    | 1                            |
| - Added or Reconfigured DL TrCH information       | ·                            |
| - Downlink transport channel type                 | DCH                          |
| - DL Transport channel identity                   | 6                            |
| - CHOICE DL parameters                            |                              |
| - CHOICE Transport channel type                   | Dedicated transport channels |

| Information Element                                                        | Value/remark        |
|----------------------------------------------------------------------------|---------------------|
| - Dynamic Transport Format Information                                     |                     |
| - RLC size                                                                 | 244 bits            |
| - Number of TBs and TTI List                                               | 2<br>Not Present    |
| Transmission Time Interval     Number of Transport blocks                  | Not Present         |
| - Transmission Time Interval                                               | Not Present         |
| - Number of Transport blocks                                               | 1                   |
| - CHOICE Logical Channel List                                              | ALL                 |
| - Semi-static Transport Format Information                                 |                     |
| - Transmission time interval - Type of channel coding                      | 20<br>Convolutional |
| - Coding Rate                                                              | 1/3                 |
| - Rate matching attribute                                                  | 256                 |
| - CRC size                                                                 | 16                  |
| - Uplink transport channel type                                            | DCH                 |
| - UL TrCH identity                                                         | 1                   |
| - DCH quality target - BLER Quality value                                  | -2.0                |
| Frequency info                                                             | Not Present         |
| Maximum allowed UL TX power                                                | 33dBm               |
| CHOICE channel requirement                                                 | Uplink DPCH info    |
| - Uplink DPCH power control info                                           | EDD                 |
| - CHOICE mode<br>- DPCCH power offset                                      | FDD<br>-6dB         |
| - PC Preamble                                                              | 1 frame             |
| - SRB delay                                                                | 7 frames            |
| - Power Control Algorithm                                                  | Algorithm1          |
| - TPC step size                                                            | 1dB                 |
| - CHOICE mode - Scrambling code type                                       | FDD<br>Long         |
| - Scrambling code type - Scrambling code number                            | 0 (0 to 16777215)   |
| - Number of DPDCH                                                          | 1                   |
| - spreading factor                                                         | 64                  |
| - TFCI existence                                                           | TRUE                |
| - Number of FBI bit                                                        | Not Present(0)      |
| - Puncturing Limit CHOICE Mode                                             | FDD                 |
| - Downlink PDSCH information                                               | Not Present         |
| Downlink information common for all radio links                            |                     |
| - Downlink DPCH info common for all RL                                     | Maintain            |
| - Timing indicator                                                         | Maintain            |
| - CFN-targetSFN frame offset     - Downlink DPCH power control information | Not Present         |
| - CHOICE mode                                                              | FDD                 |
| - DPC mode                                                                 | 0 (single)          |
| - CHOICE mode                                                              | FDD                 |
| - Power offset P <sub>Pilot-DPDCH</sub>                                    | 0<br>Not Procent    |
| - DL rate matching restriction information - Spreading factor              | Not Present<br>128  |
| - Fixed or Flexible Position                                               | Fixed               |
| - TFCI existence                                                           | TRUE                |
| - CHOICE SF                                                                | 128                 |
| - Number of bits for Pilot bits                                            | 8                   |
| - CHOICE mode                                                              | FDD<br>Not Present  |
| - DPCH compressed mode info - TX Diversity mode                            | Not Present         |
| - SSDT information                                                         | Not Present         |
| - Default DPCH Offset Value                                                | Not Present         |
| Downlink information for per radio link list                               |                     |
| - Downlink information for each radio link                                 | EDD                 |
| - CHOICE mode<br>- Primary CPICH info                                      | FDD                 |
| - Primary scrambling code                                                  | 100                 |
| - PDSCH with SHO DCH info                                                  | Not Present         |
| - PDSCH code mapping                                                       | Not Present         |
| - Downlink DPCH info for each RL                                           | 500                 |
| - CHOICE mode                                                              | FDD                 |

| Information Element                                            | Value/remark                                                                 |
|----------------------------------------------------------------|------------------------------------------------------------------------------|
| <ul> <li>Primary CPICH usage for channel estimation</li> </ul> | Primary CPICH may be used                                                    |
| - DPCH frame offset                                            | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 |
| <ul> <li>Secondary CPICH info</li> </ul>                       | Not Present                                                                  |
| - DL channelisation code                                       |                                                                              |
| <ul> <li>Secondary scrambling code</li> </ul>                  | Not Present                                                                  |
| - Spreading factor                                             | 128                                                                          |
| - Code number                                                  | 96                                                                           |
| - Scrambling code change                                       | No change                                                                    |
| - TPC combination index                                        | 0                                                                            |
| - SSDT Cell Identity                                           | Not Present                                                                  |
| <ul> <li>Closed loop timing adjustment mode</li> </ul>         | Not Present                                                                  |
| <ul> <li>SCCPCH information for FACH</li> </ul>                | Not Present                                                                  |

## Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)

| Information Element                                                         | Value/remark                                                                                     | Version |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------|
| Message Type                                                                |                                                                                                  |         |
| RRC transaction identifier                                                  | Arbitrarily selects an integer between 0 and 3                                                   |         |
| Integrity check info - message authentication code                          | SS calculates the value of MAC-I for this message                                                |         |
| message admentication code                                                  | and writes to this IE. The first/ leftmost bit of the bit                                        |         |
|                                                                             | string contains the most significant bit of the MAC-                                             |         |
| DDC management as a superior as a superior                                  | Communidate the value of this IF from its internal                                               |         |
| - RRC message sequence number                                               | SS provides the value of this IE, from its internal counter.                                     |         |
| Integrity protection mode info                                              | Not Present                                                                                      |         |
| Ciphering mode info                                                         | Not Present                                                                                      |         |
| Activation time                                                             | Not Present                                                                                      |         |
| New U-RNTI<br>New C-RNTI                                                    | Not Present                                                                                      |         |
| New DSCH-RNTI                                                               | Not Present Not Present                                                                          |         |
| New H-RNTI                                                                  | "1010 1010 1010 1010"                                                                            | REL-5   |
| RRC State indicator                                                         | CELL_DCH                                                                                         |         |
| UTRAN DRX cycle length coefficient                                          | Not Present                                                                                      |         |
| CN information info                                                         | Not Present Not Present                                                                          |         |
| URA identity Signalling RB information to setup                             | Not Present Not Present                                                                          |         |
| RAB information for setup list                                              | 1100 T 1000TR                                                                                    |         |
| - RAB information for setup                                                 |                                                                                                  |         |
| - RAB info                                                                  | (high-speed AM DTCH for PS domain)                                                               |         |
| - RAB identity                                                              | 0000 0110B                                                                                       |         |
|                                                                             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |
| - CN domain identity                                                        | PS domain                                                                                        |         |
| - NAS Synchronization Indicator                                             | Not Present                                                                                      |         |
| - Re-establishment timer                                                    | UseT315                                                                                          |         |
| - RB information to setup                                                   |                                                                                                  |         |
| - RB identity - PDCP info                                                   | 23                                                                                               |         |
| - Support for lossless SRNS relocation                                      | FALSE                                                                                            |         |
| - Max PDCP SN window size                                                   | Not present                                                                                      |         |
| - PDCP PDU header                                                           | Absent                                                                                           |         |
| - Header compression information                                            | Not present                                                                                      |         |
| - CHOICE RLC info type<br>- CHOICE Uplink RLC mode                          | RLC info AM RLC                                                                                  |         |
| - Transmission RLC discard                                                  | AWINEO                                                                                           |         |
| - CHOICE SDU discard mode                                                   | No Discard                                                                                       |         |
| - MAX_DAT                                                                   | 15                                                                                               |         |
| - Transmission window size                                                  | 128                                                                                              |         |
| - Timer_RST<br>- Max_RST                                                    | 500                                                                                              |         |
| - Polling info                                                              | 4                                                                                                |         |
| - Timer_poll_prohibit                                                       | 100                                                                                              |         |
| - Timer_poll                                                                | 100_                                                                                             |         |
| - Poll_PDU                                                                  | Not Present                                                                                      |         |
| <ul><li>Poll_SDU</li><li>Last transmission PDU poll</li></ul>               | 1 TRUE                                                                                           |         |
| - Last transmission PDU poll                                                | TRUE                                                                                             |         |
| - Poll_Windows                                                              | 99                                                                                               |         |
| - Timer_poll_periodic                                                       | Not Present                                                                                      |         |
| - CHOICE Downlink RLC mode                                                  | AM RLC                                                                                           |         |
| - In-sequence delivery                                                      | TRUE                                                                                             |         |
| <ul> <li>Receiving window size</li> <li>Downlink RLC status info</li> </ul> | 700                                                                                              |         |
| - Timer_status_prohibit                                                     | 100                                                                                              |         |
| - Timer_EPC                                                                 | Not Present                                                                                      |         |
| - Missing PDU indicator                                                     | TRUE                                                                                             |         |
| - Timer_STATUS_periodic                                                     | Not Present                                                                                      |         |
| RB mapping info     Information for each multiplexing option                | 2 RBMuxOptions                                                                                   |         |
| - RLC logical channel mapping indicator                                     | Not Present                                                                                      |         |
|                                                                             | •                                                                                                |         |

| Information Element                                       | Value/remark                                      | Version |
|-----------------------------------------------------------|---------------------------------------------------|---------|
| - Number of uplink RLC logical channels                   | 1                                                 |         |
| - Uplink transport channel type                           | DCH                                               |         |
| - UL Transport channel identity                           | 1                                                 |         |
| - Logical channel identity                                | Not Present                                       |         |
| - CHOICE RLC size list                                    | Configured                                        |         |
| - MAC logical channel priority                            | 8                                                 |         |
| - Downlink RLC logical channel info                       |                                                   |         |
| - Number of downlink RLC logical channels                 | 1                                                 |         |
| - Downlink transport channel type                         | HS-DSCH                                           |         |
| - DL DCH Transport channel identity                       | Not Present                                       |         |
| - DL DSCH Transport channel identity                      | Not Present                                       |         |
| - DL HS-DSCH MAC-d flow identity                          | 0                                                 |         |
| - Logical channel identity                                | Not Present                                       |         |
| - RLC logical channel mapping indicator                   | Not Present                                       |         |
| - Number of uplink RLC logical channels                   | 1                                                 |         |
| - Uplink transport channel type                           | RACH                                              |         |
| - UL Transport channel identity                           | Not Present                                       |         |
| - Logical channel identity                                | 7                                                 |         |
| - CHOICE RLC size list                                    |                                                   |         |
|                                                           | Explicit list                                     |         |
| - RLC size index                                          | Reference to TS34.108 clause 6 Parameter Set      |         |
| - MAC logical channel priority                            | 8                                                 |         |
| - Downlink RLC logical channel info                       | 4                                                 |         |
| - Number of downlink RLC logical channels                 | 1                                                 |         |
| - Downlink transport channel type                         | FACH                                              |         |
| - DL DCH Transport channel identity                       | Not Present                                       |         |
| - DL DSCH Transport channel identity                      | Not Present                                       |         |
| - Logical channel identity                                | 7                                                 |         |
| RB information to be affected list                        | Not Present                                       |         |
| Downlink counter synchronisation info                     | Not Present                                       |         |
| UL Transport channel information for all transport        |                                                   |         |
| channels                                                  |                                                   |         |
| - PRACH TFCS                                              | Not Present                                       |         |
| - CHOICE mode                                             | FDD                                               |         |
| - TFC subset                                              | Not Present                                       |         |
| - UL DCH TFCS                                             |                                                   |         |
| - CHOICE TFCI signalling                                  | Normal                                            |         |
| - TFCI Field 1 information                                |                                                   |         |
| - CHOICE TFCS representation                              | Complete reconfiguration                          |         |
| <ul> <li>TFCS complete reconfigure information</li> </ul> |                                                   |         |
| - CHOICE CTFC Size                                        | Number of bits used must be enough to cover all   |         |
|                                                           | combinations of CTFC from TS34.108 clause         |         |
|                                                           | 6.10.2.4 Parameter Set.                           |         |
| - CTFC information                                        | This IE is repeated for TFC numbers and           |         |
|                                                           | reference to TS34.108 clause 6.10.2.4 Parameter   |         |
|                                                           | Set                                               |         |
| - CTFC                                                    | Reference to TS34.108 clause 6.10.2.4 Parameter   |         |
|                                                           | Set                                               |         |
| - Power offset information                                |                                                   |         |
| - CHOICE Gain Factors                                     | Computed Gain Factors(The last TFC is set to      |         |
|                                                           | Signalled Gain Factors)                           |         |
| - Gain factor βc                                          | 11 (below 64 kbps)                                |         |
| ·                                                         | 9 (higher than 64 kbps) (Not Present if the       |         |
|                                                           | CHOICE Gain Factors is set to Computed Gain       |         |
|                                                           | Factors)                                          |         |
| - Gain factor βd                                          | 15                                                |         |
| '                                                         | (Not Present if the CHOICE Gain Factors is set to |         |
|                                                           | Computed Gain Factors)                            |         |
| - Reference TFC ID                                        | 0                                                 |         |
| - CHOICE mode                                             | FDD                                               |         |
| - Power offset P p-m                                      | Not Present                                       |         |
| Deleted UL TrCH information list                          | Not Present                                       |         |
| Added or Reconfigured UL TrCH information list            | 1                                                 |         |
| Added or Reconfigured UL TrCH information                 | 1 DCH added, 1 DCH reconfigured                   |         |
| - Uplink transport channel type                           | DCH                                               |         |
| - UL Transport channel identity                           | 1                                                 |         |
| - TFS                                                     | ·                                                 |         |
| - CHOICE Transport channel type                           | Dedicated transport channels                      |         |
| Shore transport shanner type                              | Dodioated transport originies                     |         |

| Information Element                                                    | Value/remark                                                                              | Version |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| - Dynamic Transport format information                                 |                                                                                           |         |
| - RLC Size                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Number of TBs and TTI List                                           | (This IE is repeated for TFI number.)                                                     |         |
| - Transmission Time Interval                                           | Not Present                                                                               |         |
| - Number of Transport blocks                                           | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - CHOICE Logical Channel list                                          | All                                                                                       |         |
| - Semi-static Transport Format information                             |                                                                                           |         |
| - Transmission time interval                                           | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Type of channel coding                                               | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Coding Rate                                                          | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Rate matching attribute                                              | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - CRC size                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Uplink transport channel type                                        | DCH                                                                                       |         |
| - UL Transport channel identity                                        | 5                                                                                         |         |
| - TFS                                                                  |                                                                                           |         |
| - CHOICE Transport channel type - Dynamic Transport format information | Dedicated transport channels                                                              |         |
| - RLC Size                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Number of TBs and TTI List                                           | (This IE is repeated for TFI number.)                                                     |         |
| - Transmission Time Interval                                           | Not Present                                                                               |         |
| - Number of Transport blocks                                           | Reference to TS34.108 clause 6.10 Parameter                                               |         |
| Trainibor or Trainiport blooks                                         | Set                                                                                       |         |
| - CHOICE Logical Channel list                                          | All                                                                                       |         |
| - Semi-static Transport Format information                             |                                                                                           |         |
| - Transmission time interval                                           | Reference to TS34.108 clause 6.10 Parameter                                               |         |
| - Type of channel coding                                               | Set Reference to TS34.108 clause 6.10 Parameter                                           |         |
|                                                                        | Set                                                                                       |         |
| - Coding Rate                                                          | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - Rate matching attribute                                              | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| - CRC size                                                             | Reference to TS34.108 clause 6.10 Parameter Set                                           |         |
| CHOICE mode                                                            | FDD                                                                                       |         |
| - CPCH set ID                                                          | Not Present                                                                               |         |
| - Added or Reconfigured TrCH information for DRAC                      | Not Present                                                                               |         |
| list                                                                   |                                                                                           |         |
| DL Transport channel information common for all                        |                                                                                           |         |
| transport channel                                                      | N . B                                                                                     |         |
| - SCCPCH TFCS                                                          | Not Present                                                                               |         |
| - CHOICE mode                                                          | FDD Evaluate                                                                              |         |
| - CHOICE DL parameters                                                 | Explicit                                                                                  |         |
| - DL DCH TFCS - CHOICE TFCI Signalling                                 | Normal                                                                                    |         |
| - TFCI Field 1 Information                                             | INOTHIA                                                                                   |         |
| - CHOICE TFCS representation                                           | Complete reconfiguration                                                                  |         |
| - TFCS complete reconfigure                                            | - Complete reconliguration                                                                |         |
| - CHOICE CTFC Size                                                     | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 |         |
|                                                                        | clause 6.10.2.4 Parameter Set.                                                            |         |
| - CTFC information                                                     | This IE is repeated for TFC numbers and                                                   |         |
| - OTT O IIIIOIIIIauoII                                                 | reference to TS34.108 clause 6.10.2.4                                                     |         |
| - CTFC                                                                 | Reference to TS34.108 clause 6.10.2.4 Parameter                                           |         |
|                                                                        | Set                                                                                       |         |
| - Power offset information                                             | Not Present                                                                               |         |
| Deleted DL TrCH information                                            | Not Present                                                                               | 1       |
| Added or Reconfigured DL TrCH information list                         | 1                                                                                         |         |
| Added or Reconfigured DL TrCH information                              | 2 TrCHs(DCH for DCCH and HS-DSCH for                                                      |         |
| <del></del>                                                            |                                                                                           | _       |

| Information Element                                           | Value/remark                                    | Version |
|---------------------------------------------------------------|-------------------------------------------------|---------|
|                                                               | DTCH)                                           |         |
| - Downlink transport channel type                             | DCH                                             |         |
| - DL Transport channel identity                               | 10                                              |         |
| - CHOICE DL parameters                                        | Same as UL                                      |         |
| - Uplink transport channel type                               | DCH                                             |         |
| - UL TrCH identity                                            | 5                                               |         |
| - DCH quality target                                          |                                                 |         |
| - BLER Quality value                                          | -2.0                                            |         |
| - Downlink transport channel type                             | HS-DSCH                                         |         |
| - DL Transport channel identity - CHOICE DL parameters        | Not Present HS-DSCH                             |         |
| - CHOICE DE parameters<br>- HARQ Info                         | N3-D3CH                                         |         |
| - Number of Processes                                         | Reference to TS34.121 [2] Annex C Fixed         |         |
| - Number of Frocesses                                         | Reference Channels                              |         |
| - CHOICE Memory Partitioning                                  | Implicit                                        |         |
| - Added or reconfigured MAC-d flow                            | mphot                                           |         |
| - MAC-hs queue to add or reconfigure list                     | (one queue)                                     |         |
| - MAC-hs queue ld                                             | 0                                               |         |
| - MAC-d Flow Identity                                         | 0                                               |         |
| - T1                                                          | 50????                                          |         |
|                                                               | Where is inter-TTI distance specified????       |         |
| - MAC-hs window size                                          | 16                                              |         |
| - MAC-d PDU size Info                                         |                                                 |         |
| - MAC-d PDU size                                              | Reference to TS34.121 [2] Annex C Fixed         |         |
|                                                               | Reference Channels                              |         |
| - MAC-d PDU size index                                        | 0                                               |         |
| - MAC-hs queue to delete list                                 | Not present                                     |         |
| - DCH quality target                                          | Not present                                     |         |
| Frequency info                                                | Not Present                                     |         |
| Maximum allowed UL TX power                                   | 33dBm                                           |         |
| CHOICE channel requirement                                    | Uplink DPCH info                                |         |
| - Uplink DPCH power control info - CHOICE mode                | FDD                                             |         |
|                                                               | -6dB                                            |         |
| - DPCCH power offset - PC Preamble                            | 1 frame                                         |         |
| - SRB delay                                                   | 7 frames                                        |         |
| - Power Control Algorithm                                     | Algorithm1                                      |         |
| - TPC step size                                               | 1dB                                             |         |
| - Δ <sub>ACK</sub>                                            | 3                                               | REL-5   |
| - Anack                                                       | 3                                               | REL-5   |
| - Ack-Nack repetition factor                                  | 1                                               | REL-5   |
| - CHOICE mode                                                 | FDD                                             |         |
| - Scrambling code type                                        | Long                                            |         |
| - Scrambling code number                                      | 0 (0 to 16777215)                               |         |
| - Number of DPDCH                                             | Not Present (1)                                 |         |
| - spreading factor                                            | Reference to TS34.108 clause 6.10.2.4 Parameter |         |
|                                                               | Set                                             |         |
| - TFCI existence                                              | TRUE                                            |         |
| - Number of FBI bit                                           | Not Present(0)                                  |         |
| - Puncturing Limit                                            |                                                 |         |
| CHOICE Mode - Downlink PDSCH information                      | FDD<br>Not Present                              |         |
| Downlink information common for all radio links               |                                                 |         |
| - Downlink DPCH info common for all RL                        |                                                 |         |
| - Timing indicator                                            | Maintain                                        |         |
| - CFN-targetSFN frame offset                                  | Not Present                                     |         |
| - Downlink DPCH power control information                     |                                                 |         |
| - CHOICE mode                                                 | FDD                                             |         |
| - DPC mode                                                    | 0 (single)                                      |         |
| - CHOICE mode                                                 | FDD                                             |         |
| - Power offset P <sub>Pilot-DPDCH</sub>                       | 0 Not Present                                   |         |
| - DL rate matching restriction information - Spreading factor | Reference to TS34.108 clause 6.10 Parameter     |         |
| - Opreading ractor                                            | Set                                             |         |
| - Fixed or Flexible Position                                  | Reference to TS34.108 clause 6.10 Parameter     |         |
|                                                               | Set                                             |         |

| Information Element                                         | Value/remark                                    | Version |
|-------------------------------------------------------------|-------------------------------------------------|---------|
| - TFCI existence                                            | Reference to TS34.108 clause 6.10 Parameter     |         |
|                                                             | Set                                             |         |
| - CHOICE SF                                                 | Reference to TS34.108 clause 6.10 Parameter     |         |
|                                                             | Set                                             |         |
| - CHOICE mode                                               | FDD                                             |         |
| - DPCH compressed mode info                                 | Not Present                                     |         |
| - TX Diversity mode                                         | None                                            |         |
| - SSDT information                                          | Not Present                                     |         |
| - Default DPCH Offset Value                                 | Not Present                                     |         |
| Downlink HS-PDSCH Information                               |                                                 |         |
| - HS-SCCH Info                                              |                                                 |         |
| - CHOICE mode                                               | FDD                                             |         |
| - DL Scrambling Code                                        |                                                 |         |
| <ul> <li>HS-SCCH Channelisation Code Information</li> </ul> |                                                 |         |
| - HS-SCCH Channelisation Code                               | 1                                               |         |
| - Measurement Feedback Info                                 |                                                 |         |
| - CHOICE mode                                               | FDD                                             |         |
| - POhsdsch                                                  | 6 dB                                            |         |
| - CQI Feedback cycle, k                                     | 2 ms                                            |         |
| - CQI repetition factor                                     | 1                                               |         |
| - $\Delta_{\text{COI}}$                                     | 5 (corresponds to 0dB in relative power offset) |         |
| - CHOICE mode                                               | FDD (no data)                                   |         |
| Downlink information per radio link list                    |                                                 |         |
| - Downlink information for each radio link                  |                                                 |         |
| - CHOICE mode                                               | FDD                                             |         |
| - Primary CPICH info                                        |                                                 |         |
| - Primary scrambling code                                   | 100                                             |         |
| - PDSCH with SHO DCH info                                   | Not Present                                     |         |
| - PDSCH code mapping                                        | Not Present                                     |         |
| - Serving HS-DSCH radio link indicator                      | TRUE                                            | REL-5   |
| - Downlink DPCH info for each RL                            |                                                 |         |
| - CHOICE mode                                               | FDD                                             |         |
| - Primary CPICH usage for channel estimation                | Primary CPICH may be used                       |         |
| - DPCH frame offset                                         | Set to value Default DPCH Offset Value (as      |         |
|                                                             | currently stored in SS) mod 38400               |         |
| - Secondary CPICH info                                      | Not Present                                     |         |
| - DL channelisation code                                    |                                                 |         |
| - Secondary scrambling code                                 | Not present                                     |         |
| - Spreading factor                                          | Reference to TS34.108 clause 6.10 Parameter     |         |
|                                                             | Set                                             |         |
| - Code number                                               | Depends upon radio bearer used.                 |         |
| - Scrambling code change                                    | No change                                       |         |
| - TPC combination index                                     | 0                                               |         |
| - SSDT Cell Identity                                        | Not Present                                     |         |
| - Closed loop timing adjustment mode                        | Not Present                                     |         |
| - SCCPCH information for FACH                               | Not Present                                     |         |

## Contents of RADIO BEARER SETUP message: BTFD RMC

| Information Element                                                      | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version        |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Message Type                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| RRC transaction identifier                                               | Arbitrarily selects an integer between 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |
| Integrity check info                                                     | and 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| - message authentication code                                            | SS calculates the value of MAC-I for this                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
| moodage damoniloalien code                                               | message and writes to this IE. The first/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
|                                                                          | leftmost bit of the bit string contains the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
|                                                                          | most significant bit of the MAC-I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| - RRC message sequence number                                            | SS provides the value of this IE, from its                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
| 1                                                                        | internal counter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |
| Integrity protection mode info                                           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| Ciphering mode info                                                      | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
|                                                                          | ciphering is indicated to be active, this IE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
|                                                                          | present with the values of the sub IEs as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
|                                                                          | stated below. Else, this IE is omitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| - Ciphering mode command                                                 | Start/restart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |
| - Ciphering algorithm                                                    | Use one of the supported ciphering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
|                                                                          | algorithms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
| - Ciphering activation time for DPCH                                     | Set by operator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| - Radio bearer downlink ciphering activation time info                   | Not Present Set by operator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| New U-RNTI                                                               | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| New C-RNTI                                                               | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| New DSCH-RNTI                                                            | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| New H-RNTI                                                               | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REL-5          |
| RRC State indicator                                                      | CELL_DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |
| UTRAN DRX cycle length coefficient                                       | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| CN information info                                                      | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| URA identity                                                             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ם בו           |
| CHOICE specification mode - Complete specification                       | Complete specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | REL-5<br>REL-5 |
| - Signalling RB information to setup                                     | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IXLL-3         |
| - RAB information for setup                                              | THE THE STATE OF T |                |
| - RAB info                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| - RAB identity                                                           | 0000 0001B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
|                                                                          | The first/ leftmost bit of the bit string                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
|                                                                          | contains the most significant bit of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |
| - CN domain identity                                                     | RAB identity. CS domain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| - NAS Synchronization Indicator                                          | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| - Re-establishment timer                                                 | UseT314                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| - RB information to setup                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| - RB identity                                                            | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |
| - PDCP info                                                              | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| - CHOICE RLC info type                                                   | RLC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |
| - CHOICE Uplink RLC mode<br>- Transmission RLC discard                   | TM RLC<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| - Segmentation indication                                                | FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| - CHOICE Downlink RLC mode                                               | TM RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |
| - Segmentation indication                                                | FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| - RB mapping info                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| - Information for each multiplexing option                               | N. B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |
| - RLC logical channel mapping indicator                                  | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| Number of uplink RLC logical channels     Uplink transport channel type  | 1<br>DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |
| - UL Transport channel identity                                          | DCH<br>  1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
| - Logical channel identity                                               | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |
| - CHOICE RLC size list                                                   | Configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
| - MAC logical channel priority                                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |
| - Downlink RLC logical channel info                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| - Number of downlink RLC logical channels                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |
| - Downlink transport channel type                                        | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |
| DL DCH Transport channel identity     DL DSCH Transport channel identity | 6 Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |
| - DE DOOL Hansport Granner Identity                                      | INOLFIESEIIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ı l            |

| Information Element                                         | Value/remark                | Version |
|-------------------------------------------------------------|-----------------------------|---------|
| - Logical channel identity                                  | Not Present                 | 70.00.  |
| RB information to be affected                               | Not Present                 |         |
| Downlink counter synchronisation info                       | Not Present                 |         |
|                                                             | RMC for BTFD                |         |
| UL Transport channel information for all transport channels |                             |         |
| - PRACH TFCS                                                | Not Present                 |         |
| - CHOICE mode                                               | FDD                         |         |
| - TFC subset                                                | Not Present                 |         |
| - UL DCH TFCS                                               |                             |         |
| - CHOICE TFCI signalling                                    | Normal                      |         |
| - TFCI Field 1 information                                  |                             |         |
| - CHOICE TFCS representation                                | Complete reconfiguration    |         |
| - TFCS complete reconfigure information                     |                             |         |
| - CHOICE CTFC Size                                          | ctfc6Bit                    |         |
| - ctfc6Bit                                                  | 22                          |         |
| - ctfc6                                                     | 0                           |         |
| -powerOffsetInformation(OP)                                 | 0                           |         |
| -gainFactorInformation                                      | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 11                          |         |
| -powerOffsetInformation(OP)                                 | ComputedCainFactors         |         |
| -gainFactorInformation - Reference TFC ID                   | ComputedGainFactors 0       |         |
| - ctfc6                                                     | 1                           |         |
| - ctico<br>-powerOffsetInformation(OP)                      | I                           |         |
| -gainFactorInformation                                      | ComputedGainEactors         |         |
| - Reference TFC ID                                          | ComputedGainFactors 0       |         |
| - ctfc6                                                     | 12                          |         |
| -powerOffsetInformation(OP)                                 | 12                          |         |
| -gainFactorInformation                                      | SignalledGainFactors        |         |
| -gain actornionnation<br>-modeSpecificInfo                  | Fdd                         |         |
| -fdd                                                        | l du                        |         |
| - Gain factor ßc                                            | 8                           |         |
| - Gain factor ßd                                            | 15                          |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 2                           |         |
| -powerOffsetInformation(OP)                                 | _                           |         |
| -gainFactorInformation                                      | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 13                          |         |
| -powerOffsetInformation(OP)                                 |                             |         |
| -gainFactorInformation                                      | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 3                           |         |
| <pre>-powerOffsetInformation(OP)</pre>                      |                             |         |
| -gainFactorInformation                                      | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 14                          |         |
| -powerOffsetInformation(OP)                                 |                             |         |
| -gainFactorInformation                                      | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 4                           |         |
| -powerOffsetInformation(OP)                                 | Community of Carin Foot and |         |
| -gainFactorInformation<br>- Reference TFC ID                | ComputedGainFactors 0       |         |
| - Reference TFC ID<br>- ctfc6                               | 15                          |         |
| - ctico<br>-powerOffsetInformation(OP)                      | 10                          |         |
| -powerOnsettnformation(OP)<br>-gainFactorInformation        | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 5                           |         |
| -powerOffsetInformation(OP)                                 | 0                           |         |
| -gainFactorInformation                                      | ComputedGainFactors         |         |
| - Reference TFC ID                                          | 0                           |         |
| - ctfc6                                                     | 16                          |         |
| 5.100                                                       | ı · <del>-</del>            | l .     |

| Information Element                       | Value/remark                 | Version |
|-------------------------------------------|------------------------------|---------|
| -powerOffsetInformation(OP)               | value/remark                 | version |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 6                            |         |
| -powerOffsetInformation(OP)               |                              |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 17                           |         |
| -powerOffsetInformation(OP)               |                              |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 7                            |         |
| -powerOffsetInformation(OP)               |                              |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 18                           |         |
| <pre>-powerOffsetInformation(OP)</pre>    |                              |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 8                            |         |
| -powerOffsetInformation(OP)               |                              |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 19                           |         |
| -powerOffsetInformation(OP)               |                              |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 9                            |         |
| -powerOffsetInformation(OP)               | 0 10:5                       |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 20                           |         |
| -powerOffsetInformation(OP)               | 0                            |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID<br>- ctfc6             | 10                           |         |
| - circo<br>-powerOffsetInformation(OP)    | 10                           |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| - ctfc6                                   | 21                           |         |
| -powerOffsetInformation(OP)               | 21                           |         |
| -gainFactorInformation                    | ComputedGainFactors          |         |
| - Reference TFC ID                        | 0                            |         |
| Added or Reconfigured UL TrCH information |                              |         |
| -ul-AddReconfTransChInfoList              | 1                            |         |
| - Uplink transport channel type           | DCH                          |         |
| - UL Transport channel identity           | 1                            |         |
| - TFS                                     |                              |         |
| - CHOICE Transport channel type           | Dedicated transport channels |         |
| -DedicatedDynamicTF-Info                  | -                            |         |
| RLC size                                  | 256                          |         |
| -numberOfTbSizeList                       |                              |         |
| -NumberOfTransportBlocks                  | Zero                         |         |
| -NumberOfTransportBlocks                  | One                          |         |
| - Choice Logical Channel List             | ALL                          |         |
| RLC size                                  | 216                          |         |
| -numberOfTbSizeList                       |                              |         |
| -NumberOfTransportBlocks                  | One                          |         |
| RLC size                                  | 171                          |         |
| - Choice Logical Channel List             | ALL                          |         |
| -numberOfTbSizeList                       |                              |         |
| -NumberOfTransportBlocks                  | One                          |         |
| - Choice Logical Channel List             | ALL                          |         |
| RLC size                                  | 160                          |         |
|                                           | [ · · · ·                    |         |

| Information Element                                       | Value/remark             | Version  |
|-----------------------------------------------------------|--------------------------|----------|
| -numberOfTbSizeList                                       |                          | 10101011 |
| -NumberOfTransportBlocks                                  | One                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| RLC size                                                  | 146                      |          |
| -numberOfTbSizeList                                       |                          |          |
| -NumberOfTransportBlocks                                  | one                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| RLC size                                                  | 130                      |          |
| -numberOfTbSizeList                                       |                          |          |
| -NumberOfTransportBlocks                                  | one                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| RLC size                                                  | 115                      |          |
| -numberOfTbSizeList                                       |                          |          |
| -NumberOfTransportBlocks                                  | one                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| RLC size                                                  | 107                      |          |
| -numberOfTbSizeList                                       |                          |          |
| -NumberOfTransportBlocks                                  | one                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| RLC size                                                  | 51                       |          |
| -numberOfTbSizeList                                       |                          |          |
| -NumberOfTransportBlocks                                  | one                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| RLC size                                                  | 12                       |          |
| -numberOfTbSizeList                                       |                          |          |
| -NumberOfTransportBlocks                                  | one                      |          |
| - Choice Logical Channel List                             | ALL                      |          |
| -Semistatic Transport Format Information                  |                          |          |
| -Transmission Time interval                               | 20 ms                    |          |
| -channelCodingType                                        | Convolutional            |          |
| -convolutional                                            | 1/3                      |          |
| - Rate matching attribute                                 | 256                      |          |
| - CRC size                                                | 0                        |          |
| DL Transport channel information common for all transport |                          |          |
| channel                                                   |                          |          |
| - SCCPCH TFCS                                             | Not Present              |          |
| - CHOICE mode                                             | FDD                      |          |
| - CHOICE DL parameters                                    | Explicit                 |          |
| - DL DCH TFCS                                             |                          |          |
| - CHOICE TFCI signalling                                  | Normal                   |          |
| - TFCI Field 1 information                                |                          |          |
| - CHOICE TFCS representation                              | Complete reconfiguration |          |
| - TFCS complete reconfigure information                   | C#cCD:4                  |          |
| - CHOICE CTFC Size<br>- ctfc6Bit                          | Ctfc6Bit                 |          |
| - ctfc6                                                   | 20<br>9                  |          |
| - ctic6                                                   | 19                       |          |
| - ctic6                                                   | 10                       |          |
| - ctrc6                                                   | 10                       |          |
| - ctfc6                                                   | 11                       |          |
| - ctfc6                                                   | 2                        |          |
| - ctfc6                                                   | 12                       |          |
| - ctfc6                                                   | 3                        |          |
| - ctfc6                                                   | 13                       |          |
| - ctfc6                                                   | 4                        |          |
| - ctfc6                                                   | 14                       |          |
| - ctfc6                                                   | 5                        |          |
| - ctfc6                                                   | 15                       |          |
| - ctfc6                                                   | 6                        |          |
| - ctfc6                                                   | 16                       |          |
| - ctfc6                                                   | 7                        |          |
| - ctfc6                                                   | 17                       |          |

| Information Element                                               | Value/remark                 | Version |
|-------------------------------------------------------------------|------------------------------|---------|
| - ctfc6                                                           | 8                            |         |
| - ctfc6                                                           | 18                           |         |
| Deleted DL TrCH information                                       | Not Present                  |         |
| Added or Reconfigured DL TrCH information                         | 4                            |         |
| -dl-AddReconfTransChInfoList(OP)                                  | DCH                          |         |
| Downlink transport channel type     DL Transport channel identity | 6                            |         |
| - CHOICE DL parameters                                            | Explicit                     |         |
| - TFS                                                             | Explicit                     |         |
| - CHOICE Transport channel type                                   | Dedicated transport channels |         |
| -DedicatedDynamicTF-Info                                          |                              |         |
| RLC size                                                          | 244                          |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | One                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 204                          |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | One                          |         |
| RLC size                                                          | 159                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| -numberOfTbSizeList -NumberOfTransportBlocks                      | One                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 148                          |         |
| -numberOfTbSizeList                                               | 170                          |         |
| -NumberOfTransportBlocks                                          | One                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 134                          |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | one                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 118                          |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | one                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 103                          |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | one                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size -numberOfTbSizeList                                      | 95                           |         |
| -numberOfTransportBlocks                                          | one                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 39                           |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | one                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| RLC size                                                          | 0                            |         |
| -numberOfTbSizeList                                               |                              |         |
| -NumberOfTransportBlocks                                          | one                          |         |
| - Choice Logical Channel List                                     | ALL                          |         |
| -Semistatic Transport Format Information                          |                              |         |
| -Transmission Time interval                                       | 20 ms                        |         |
| -channelCodingType                                                | Convolutional                |         |
| -convolutional                                                    | 1/3                          |         |
| - Rate matching attribute                                         | 256                          |         |
| - CRC size                                                        | 12                           |         |
| - DCH quality target                                              |                              |         |
| - BLER Quality value                                              | -2.0                         |         |
| - Transparent mode signalling info                                | Not Present                  |         |
| Frequency info                                                    | Not Present                  |         |
| Maximum allowed UL TX power                                       | 33 dBm                       |         |

| Information Element                                                            | Value/remark                           | Version  |
|--------------------------------------------------------------------------------|----------------------------------------|----------|
| CHOICE channel requirement                                                     | Uplink DPCH info                       | 70.0.0   |
| - Uplink DPCH power control info                                               |                                        |          |
| - DPCCH power offset                                                           | 0                                      |          |
| - PC Preamble                                                                  | 1 frame                                |          |
| - SRB delay                                                                    | 7 frames                               |          |
| - Power Control Algorithm                                                      | Algorithm1                             |          |
| - TPC step size                                                                | 1dB                                    |          |
| - Δ <sub>ACK</sub>                                                             | Not Present                            | REL-5    |
| - Anack                                                                        | Not Present                            | REL-5    |
| - Ack-Nack repetition factor                                                   | Not Present                            | REL-5    |
| - Scrambling code type                                                         | Long                                   | INEE-5   |
| - Scrambling code rype - Scrambling code number                                | 0                                      |          |
| - Number of DPDCH                                                              | 1                                      |          |
| - spreading factor                                                             | 64                                     |          |
| - TFCI existence                                                               | TRUE                                   |          |
| - Number of FBI bit                                                            | Not Present(0)                         |          |
| - Puncturing Limit                                                             | 1                                      |          |
| CHOICE Mode                                                                    | FDD                                    | +        |
| - Downlink PDSCH information                                                   | Not Present(0)                         | +        |
| Downlink HS-PDSCH Information                                                  | Not Present(0)  Not Present            | REL-5    |
| Downlink HS-PDSCH Information  Downlink information common for all radio links | INUL FIESEIIL                          | KEL-0    |
| - Downlink DPCH info common for all RL                                         | FDD                                    |          |
|                                                                                | Maintain                               |          |
| - Timing indicator - CFN-targetSFN frame offset                                |                                        |          |
|                                                                                | Not Present                            |          |
| - Downlink DPCH power control information                                      | O (ain ala)                            |          |
| - DPC mode                                                                     | 0 (single)                             |          |
| - CHOICE mode                                                                  | FDD                                    |          |
| - Power offset Ppilot-DPDCH                                                    | 0                                      |          |
| - DL rate matching restriction information                                     | Not Present                            |          |
| - Spreading factor                                                             | 128                                    |          |
| - Number of bits for Pilot bits(SF=128,256)                                    | 4                                      |          |
| - Fixed or Flexible Position                                                   | Fixed                                  |          |
| - TFCI existence                                                               | FALSE                                  |          |
| - DPCH compressed mode info                                                    | Not Present                            |          |
| - TX Diversity mode                                                            | None                                   |          |
| - SSDT information                                                             | Not Present                            |          |
| - Default DPCH Offset Value                                                    | Not Present                            |          |
| Downlink information for each radio link list                                  | N ( B                                  |          |
| - Primary CPICH info                                                           | Not Present                            |          |
| - Primary scrambling code                                                      | 100                                    |          |
| - PDSCH with SHO DCH info                                                      | Not Present                            |          |
| - PDSCH code mapping                                                           | Not Present                            |          |
| - Downlink DPCH info for each RL                                               | D: OBIOLE :                            | 1        |
| - Primary CPICH usage for channel estimation                                   | Primary CPICH may be used              | 1        |
| - DPCH frame offset                                                            | Set to value Default DPCH Offset Value |          |
| 0 1 001011: /                                                                  | (as currently stored in SS) mod 38400  | 1        |
| - Secondary CPICH info                                                         | Not Present                            | 1        |
| - DL channelisation code                                                       | N. D.                                  | 1        |
| - Secondary scrambling code                                                    | Not Present                            | 1        |
| - Spreading factor                                                             | 128                                    | 1        |
| - Code number                                                                  | 96                                     |          |
| - Scrambling code change                                                       | No change                              | 1        |
| - TPC combination index                                                        | 0                                      | <b>_</b> |
| - SSDT Cell Identity                                                           | Not Present                            |          |
| <ul> <li>Closed loop timing adjustment mode</li> </ul>                         | Not Present                            | 1        |
| - SCCPCH information for FACH                                                  | Not Present                            |          |

## Contents of RRC CONNECTION RELEASE message: UM

| Information Element        | Value/remark                                                                                                                 | Version    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|------------|
| Message Type               |                                                                                                                              |            |
| U-RNTĬ                     | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | R99, REL-4 |
| - SRNC identity            | 0000 0000 0001B                                                                                                              |            |
| - S-RNTI                   | 0000 0000 0000 0000 0001B                                                                                                    |            |
| CHOICE identity type       | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | REL-5      |
| - U-RNTI                   |                                                                                                                              |            |
| - SRNC identity            | 0000 0000 0001B                                                                                                              |            |
| - S-RNTI                   | 0000 0000 0000 0000 0001B                                                                                                    |            |
| - Group identity           | [FFS]                                                                                                                        |            |
| - Group release            | [FFS]                                                                                                                        |            |
| information                |                                                                                                                              |            |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3                                                                               |            |
| Integrity check info       | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.             |            |
| - Message                  | SS calculates the value of MAC-I for this message and                                                                        |            |
| authentication code        | writes to this IE. The first/ leftmost bit of the bit string                                                                 |            |
|                            | contains the most significant bit of the MAC-I.                                                                              |            |
| - RRC Message              | SS provides the value of this IE, from its internal counter.                                                                 |            |
| sequence number            |                                                                                                                              |            |
| N308                       | 2 (for CELL_DCH state). Not Present (for UE in other                                                                         |            |
|                            | connected mode states).                                                                                                      |            |
| Release cause              | Normal event                                                                                                                 |            |
| Rplmn information          | Not Present                                                                                                                  |            |

## Contents of RRC CONNECTION SETUP message: UM

| Information Element                                       | Value/remark                                 | Version |
|-----------------------------------------------------------|----------------------------------------------|---------|
| Message Type                                              |                                              |         |
| Initial UE identity                                       | Select the same identity as in the IE        |         |
|                                                           | "Initial UE Identity" in received 'RRC       |         |
|                                                           | CONNECTION REQUEST" message                  |         |
| RRC transaction identifier                                | Arbitrarily selects an integer between 0     |         |
|                                                           | and 3                                        |         |
| Activation time                                           | Not Present(Now)                             |         |
| New U-RNTI                                                |                                              |         |
| - SRNC identity                                           | 0000 0000 0001B                              |         |
| - S-RNTI                                                  | 0000 0000 0000 0000 0001B                    |         |
| New C-RNTI                                                | Not Present                                  |         |
| RRC State Indicator                                       | CELL_DCH                                     |         |
|                                                           |                                              |         |
| UTRAN DRX cycle length coefficient                        | 9                                            |         |
| Capability update requirement                             | TOUE                                         |         |
| - UE radio access FDD capability update requirement       | TRUE                                         |         |
| - UE radio access TDD capability update requirement       | FALSE                                        |         |
| - System specific capability update requirement list      | GSM                                          |         |
| CHOICE specification mode                                 | Complete specification                       | REL-5   |
| - Complete specification                                  |                                              | REL-5   |
| - Signalling RB information to setup list                 | 4 SRBs                                       |         |
| - Signalling RB information to setup                      | (UM DCCH for RRC)                            |         |
| - RB identity                                             | Not Present                                  |         |
| - CHOICE RLC info type                                    | RLC info                                     |         |
| - CHOICE Uplink RLC mode                                  | UM RLC                                       |         |
| - Transmission RLC discard                                | Not Present                                  |         |
| - CHOICE Downlink RLC mode                                | UM RLC                                       |         |
| - RB mapping info                                         |                                              |         |
| - Information for each multiplexing option                | 2 RBMuxOptions                               |         |
| - RLC logical channel mapping indicator                   | Not Present                                  |         |
| Number of RLC logical channels                            | 1                                            |         |
| - Uplink transport channel type                           | DCH                                          |         |
| - UL Transport channel identity                           | 5                                            |         |
| - Logical channel identity                                | 1                                            |         |
| - CHOICE RLC size list                                    | Configured                                   |         |
|                                                           | Cornigured                                   |         |
| - MAC logical channel priority                            | 1                                            |         |
| - Downlink RLC logical channel info                       | 4                                            |         |
| - Number of RLC logical channels                          | 1                                            |         |
| - Downlink transport channel type                         | DCH                                          |         |
| - DL DCH Transport channel identity                       | 10                                           |         |
| - DL DSCH Transport channel identity                      | Not Present                                  |         |
| - Logical channel identity                                | 1                                            |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul> | Not Present                                  |         |
| - Number of RLC logical channels                          | 1                                            |         |
| <ul> <li>Uplink transport channel type</li> </ul>         | RACH                                         |         |
| <ul> <li>UL Transport channel identity</li> </ul>         | Not Present                                  |         |
| <ul> <li>Logical channel identity</li> </ul>              | 1                                            |         |
| - CHOICE RLC size list                                    | Explicit List                                |         |
| - RLC size index                                          | Reference to TS34.108 clause 6 Parameter Set |         |
| - MAC logical channel priority                            | 1                                            |         |
| - Downlink RLC logical channel info                       |                                              |         |
| - Number of RLC logical channels                          | 1                                            |         |
| - Downlink transport channel type                         | FACH                                         |         |
| - DL DCH Transport channel identity                       | Not Present                                  |         |
| - DL DSCH Transport channel identity                      | Not Present                                  |         |
|                                                           |                                              |         |
| - Logical channel identity                                | 1                                            | I       |

| Information Element                        | Value/remark                                 | Version |
|--------------------------------------------|----------------------------------------------|---------|
| - Signalling RB information to setup       | (AM DCCH for RRC)                            | 70.000  |
| - RB identity                              | Not Present                                  |         |
| - CHOICE RLC info type                     |                                              |         |
| - RLC info                                 |                                              |         |
| - CHOICE Uplink RLC mode                   | AM RLC                                       |         |
| - Transmission RLC discard                 |                                              |         |
| - SDU discard mode                         | No Discard                                   |         |
| - MAX_DAT                                  | 15                                           |         |
| - Transmission window size                 | 128                                          |         |
| - Timer_RST                                | 500                                          |         |
| - Max_RST                                  | 1                                            |         |
| - Polling info                             |                                              |         |
| - Timer_poll_prohibit                      | 200                                          |         |
| - Timer_poll                               | 200                                          |         |
| - Poll_PDU                                 | Not Present                                  |         |
| - Poll_SDU                                 | 1                                            |         |
| - Last transmission PDU poll               | TRUE                                         |         |
| - Last retransmission PDU poll             | TRUE                                         |         |
| - Poll_Windows                             | 99                                           |         |
| - Timer_poll_periodic                      | Not Present                                  |         |
| - CHOICE Downlink RLC mode                 | AM RLC                                       |         |
| - In-sequence delivery                     | TRUE                                         |         |
| - Receiving window size                    | 128                                          |         |
| - Downlink RLC status info                 | -                                            |         |
| - Timer_status_prohibit                    | 200                                          |         |
| - Timer_EPC                                | Not Present                                  |         |
| - Missing PDU indicator                    | TRUE                                         |         |
| - Timer_STATUS_periodic                    | Not Present                                  |         |
| - RB mapping info                          |                                              |         |
| - Information for each multiplexing option | 2 RBMuxOptions                               |         |
| - RLC logical channel mapping indicator    | Not Present                                  |         |
| - Number of RLC logical channels           | 1                                            |         |
| - Uplink transport channel type            | DCH                                          |         |
| - UL Transport channel identity            | 5                                            |         |
| - Logical channel identity                 | 2                                            |         |
| - CHOICE RLC size list                     | Configured                                   |         |
| - MAC logical channel priority             | 2                                            |         |
| - Downlink RLC logical channel info        |                                              |         |
| - Number of RLC logical channels           | 1                                            |         |
| - Downlink transport channel type          | DCH                                          |         |
| - DL DCH Transport channel identity        | 10                                           |         |
| - DL DSCH Transport channel identity       | Not Present                                  |         |
| - Logical channel identity                 | 2                                            |         |
| - RLC logical channel mapping indicator    | Not Present                                  |         |
| - Number of RLC logical channels           | 1                                            |         |
| - Uplink transport channel type            | RACH                                         |         |
| - UL Transport channel identity            | Not Present                                  |         |
| - Logical channel identity                 | 2                                            |         |
| - CHOICE RLC size list                     | Explicit List                                |         |
| - RLC size index                           | Reference to TS34.108 clause 6 Parameter Set |         |
| - MAC logical channel priority             | 2                                            |         |
| - Downlink RLC logical channel info        |                                              |         |
| - Number of RLC logical channels           | 1                                            |         |
| - Downlink transport channel type          | FACH                                         |         |
| - DL DCH Transport channel identity        | Not Present                                  |         |
| - DL DSCH Transport channel identity       | Not Present                                  |         |
| - Logical channel identity                 | 2                                            |         |
|                                            | I <del>-</del>                               | I       |

| Information Element                                          | Value/remark                       | Version |
|--------------------------------------------------------------|------------------------------------|---------|
| - Signalling RB information to setup                         | (AM DCCH for NAS_DT High priority) |         |
| - RB identity                                                | Not Present                        |         |
| - CHOICE RLC info type                                       |                                    |         |
| - RLC info                                                   |                                    |         |
| - CHOICE Uplink RLC mode                                     | AM RLC                             |         |
| - Transmission RLC discard                                   |                                    |         |
| - SDU discard mode                                           | No Discard                         |         |
| - MAX_DAT                                                    | 15                                 |         |
| - Transmission window size                                   | 128                                |         |
| - Timer_RST                                                  | 500                                |         |
| - Max_RST                                                    | 1                                  |         |
| - Polling info                                               | '                                  |         |
| - Tolling lillo<br>- Timer_poll_prohibit                     | 200                                |         |
| - Timer_poll<br>- Timer_poll                                 | 200                                |         |
| - Poll_PDU                                                   |                                    |         |
| _                                                            | Not Present                        |         |
| - Poll_SDU                                                   | 1                                  |         |
| - Last transmission PDU poll                                 | TRUE                               |         |
| - Last retransmission PDU poll                               | TRUE                               |         |
| - Poll_Windows                                               | 99                                 |         |
| - Timer_poll_periodic                                        | Not Present                        |         |
| - CHOICE Downlink RLC mode                                   | AM RLC                             |         |
| - In-sequence delivery                                       | TRUE                               |         |
| - Receiving window size                                      | 128                                |         |
| - Downlink RLC status info                                   |                                    |         |
| <ul><li>- Timer_status_prohibit</li></ul>                    | 200                                |         |
| - Timer_EPC                                                  | Not Present                        |         |
| <ul> <li>Missing PDU indicator</li> </ul>                    | TRUE                               |         |
| <ul> <li>Timer_STATUS_periodic</li> </ul>                    | Not Present                        |         |
| - RB mapping info                                            |                                    |         |
| <ul> <li>Information for each multiplexing option</li> </ul> | 2 RBMuxOptions                     |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                        |         |
| - Number of RLC logical channels                             | 1                                  |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | DCH                                |         |
| -UL Transport channel identity                               | 5                                  |         |
| - Logical channel identity                                   | 3                                  |         |
| - CHOICE RLC size list                                       | Configured                         |         |
| - MAC logical channel priority                               | 3                                  |         |
| - Downlink RLC logical channel info                          |                                    |         |
| - Number of RLC logical channels                             | 1                                  |         |
| - Downlink transport channel type                            | DCH                                |         |
| - DL DCH Transport channel identity                          | 10                                 |         |
| - DL DSCH Transport channel identity                         | Not Present                        |         |
| - Logical channel identity                                   | 3                                  |         |
| - RLC logical channel mapping indicator                      | Not Present                        |         |
| - Number of RLC logical channels                             | 1                                  |         |
| - Uplink transport channel type                              | RACH                               |         |
| - UL Transport channel identity                              | Not Present                        |         |
| - Logical channel identity                                   | 3                                  |         |
| - CHOICE RLC size list                                       | Explicit List                      |         |
| - RLC size index                                             | Reference to TS34.108 clause 6     |         |
|                                                              | Parameter Set                      |         |
| - MAC logical channel priority                               | 3                                  |         |
| <ul> <li>Downlink RLC logical channel info</li> </ul>        |                                    |         |
| <ul> <li>Number of RLC logical channels</li> </ul>           | 1                                  |         |
| <ul> <li>Downlink transport channel type</li> </ul>          | FACH                               |         |
| <ul> <li>DL DCH Transport channel identity</li> </ul>        | Not Present                        |         |
| <ul> <li>DL DSCH Transport channel identity</li> </ul>       | Not Present                        |         |
| <ul> <li>Logical channel identity</li> </ul>                 | 3                                  |         |
|                                                              |                                    |         |

| Information Element                                       | Value/remark                                 | Version                                 |
|-----------------------------------------------------------|----------------------------------------------|-----------------------------------------|
| - Signalling RB information to setup                      | (AM DCCH for NAS_DT Low priority)            | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| - RB identity                                             | Not Present                                  |                                         |
| - CHOICE RLC info type                                    |                                              |                                         |
| - RLC info                                                |                                              |                                         |
| - CHOICE Uplink RLC mode                                  | AM RLC                                       |                                         |
| - Transmission RLC discard                                |                                              |                                         |
| - SDU discard mode                                        | No Discard                                   |                                         |
| - MAX_DAT                                                 | 15                                           |                                         |
| - Transmission window size                                | 128                                          |                                         |
| - Timer_RST                                               | 500                                          |                                         |
| - Max_RST                                                 | 1                                            |                                         |
| - Polling info                                            | 1                                            |                                         |
| - Timer_poll_prohibit                                     | 200                                          |                                         |
| - Timer_poil_profilibit                                   | 200                                          |                                         |
| - Poll_PDU                                                | Not Present                                  |                                         |
| - Poll_SDU                                                | 1                                            |                                         |
| - Last transmission PDU poll                              | TRUE                                         |                                         |
|                                                           | TRUE                                         |                                         |
| - Last retransmission PDU poll                            | 99                                           |                                         |
| - Poll_Windows                                            |                                              |                                         |
| - Timer_poll_periodic                                     | Not Present                                  |                                         |
| - CHOICE Downlink RLC mode                                | AM RLC                                       |                                         |
| - In-sequence delivery                                    | TRUE                                         |                                         |
| - Receiving window size                                   | 128                                          |                                         |
| - Downlink RLC status info                                | 000                                          |                                         |
| - Timer_status_prohibit                                   | 200                                          |                                         |
| - Timer_EPC                                               | Not Present                                  |                                         |
| - Missing PDU indicator                                   | TRUE                                         |                                         |
| - Timer_STATUS_periodic                                   | Not Present                                  |                                         |
| - RB mapping info                                         |                                              |                                         |
| - Information for each multiplexing option                | 2 RBMuxOptions                               |                                         |
| - RLC logical channel mapping indicator                   | Not Present                                  |                                         |
| - Number of RLC logical channels                          | 1                                            |                                         |
| - Uplink transport channel type                           | DCH                                          |                                         |
| - UL Transport channel identity                           | 5                                            |                                         |
| - Logical channel identity                                | 4                                            |                                         |
| - CHOICE RLC size list                                    | Configured                                   |                                         |
| <ul> <li>MAC logical channel priority</li> </ul>          | 4                                            |                                         |
| - Downlink RLC logical channel info                       |                                              |                                         |
| - Number of RLC logical channels                          | 1                                            |                                         |
| <ul> <li>Downlink transport channel type</li> </ul>       | DCH                                          |                                         |
| <ul> <li>DL DCH Transport channel identity</li> </ul>     | 10                                           |                                         |
| <ul> <li>DL DSCH Transport channel identity</li> </ul>    | Not Present                                  |                                         |
| <ul> <li>Logical channel identity</li> </ul>              | 4                                            |                                         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul> | Not Present                                  |                                         |
| <ul> <li>Number of RLC logical channels</li> </ul>        | 1                                            |                                         |
| <ul> <li>Uplink transport channel type</li> </ul>         | RACH                                         |                                         |
| <ul> <li>UL Transport channel identity</li> </ul>         | Not Present                                  |                                         |
| <ul> <li>Logical channel identity</li> </ul>              | 4                                            |                                         |
| - CHOICE RLC size list                                    | Explicit List                                |                                         |
| - RLC size index                                          | Reference to TS34.108 clause 6 Parameter Set |                                         |
| - MAC logical channel priority                            | 4                                            |                                         |
| - Downlink RLC logical channel info                       |                                              |                                         |
| - Number of RLC logical channels                          | 1                                            |                                         |
| - Downlink transport channel type                         | FACH                                         |                                         |
| - DL DCH Transport channel identity                       | Not Present                                  |                                         |
| - DL DSCH Transport channel identity                      | Not Present                                  |                                         |
| - Logical channel identity                                | 4                                            |                                         |
| - <del> </del>                                            | ı                                            | 1 1                                     |

| Information Element                                               | Value/remark                       | Version |
|-------------------------------------------------------------------|------------------------------------|---------|
| UL Transport channel information for all transport channels       |                                    |         |
| - PRACH TFCS                                                      | Not Present                        |         |
| - CHOICE Mode                                                     | FDD                                |         |
| - TFC subset                                                      | Not Present                        |         |
| - UL DCH TFCS                                                     |                                    |         |
| - CHOICE TFCI signalling                                          | Normal                             |         |
| - TFCI Field 1 information                                        |                                    |         |
| - CHOICE TFCS representation                                      | Complete reconfiguration           |         |
| - TFCS complete reconfiguration information                       |                                    |         |
| - CHOICE CTFC Size                                                | 2 bit CTFC                         |         |
| - CTFC information                                                | 2 TFCs                             |         |
| - 2bit CTFC                                                       | 0                                  |         |
| - Power offset Information                                        |                                    |         |
| - CHOICE Gain Factors                                             | computedGainFactors                |         |
| - Reference TFC ID                                                | 0                                  |         |
| - CHOICE mode                                                     | FDD                                |         |
| - Power offset Pp-m                                               | Not Present                        |         |
| - 2bit CTFC                                                       | 1                                  |         |
| - Power offset Information                                        |                                    |         |
| - CHOICE Gain Factors                                             | signalledGainFactors               |         |
| - CHOICE mode                                                     | FDD                                |         |
| - Gain factor ßc                                                  | 15                                 |         |
| - Gain factor ßd                                                  | 15                                 |         |
| - Reference TFC ID                                                | 0                                  |         |
| - CHOICE mode                                                     | FDD                                |         |
| - Power offset Pp-m                                               | Not Present                        |         |
| Added or Reconfigured UL TrCH information list                    | 1                                  |         |
| - Added or Reconfigured UL TrCH information                       | DOLL.                              |         |
| - Uplink transport channel type                                   | DCH                                |         |
| - UL Transport channel identity                                   | 5                                  |         |
| - TFS                                                             | De die ete d'annue ent els en rele |         |
| - CHOICE Transport channel type                                   | Dedicated transport channels       |         |
| - Dynamic Transport Format Information - RLC size                 | O6 hito                            |         |
| - Number of TBs and TTI List                                      | 96 bits                            |         |
|                                                                   | Not Present                        |         |
| - Transmission Time Interval                                      | 0                                  |         |
| Number of Transport blocks     Transmission Time Interval         | Not Present                        |         |
| - Number of Transport blocks                                      | 1                                  |         |
| - CHOICE Logical Channel List                                     | ALL                                |         |
| - Semi-static Transport Format Information                        | ALL                                |         |
| - Transmission time interval                                      | 40                                 |         |
| - Type of channel coding                                          | Convolutional                      |         |
| - Coding Rate                                                     | 1/3                                |         |
| - Rate matching attribute                                         | 256                                |         |
| - CRC size                                                        | 12                                 |         |
| DL Transport channel information common for all transport channel |                                    |         |
| - SCCPCH TFCS                                                     | Not Present                        |         |
| - CHOICE mode                                                     | FDD                                |         |
| - CHOICE DL parameters                                            | Same as UL                         |         |
| Added or Reconfigured DL TrCH information list                    | 1                                  |         |
| - Added or Reconfigured DL TrCH information                       |                                    |         |
| - Downlink transport channel type                                 | DCH                                |         |
| - DL Transport channel identity                                   | 10                                 |         |
| - CHOICE DL parameters                                            | SameAasUL                          |         |
| - Uplink transport channel type                                   | DCH                                |         |
| - UL TrCH Identity                                                | 5                                  |         |
| - DCH quality target                                              |                                    |         |
| l                                                                 | I                                  | 1 1     |

| Information Element                                        | Value/remark                           | Version |
|------------------------------------------------------------|----------------------------------------|---------|
| - BLER Quality value                                       | -2.0                                   |         |
| Frequency info                                             | Not Present                            |         |
| Maximum allowed UL TX power                                | Not Present                            |         |
| CHOICE channel requirement                                 | Uplink DPCH info                       |         |
| - Uplink DPCH power control info                           | ·                                      |         |
| - DPCCH power offset                                       | -6dB                                   |         |
| - PC Preamble                                              | 1 frame                                |         |
| - SRB delay                                                | 7 frames                               |         |
| - Power Control Algorithm                                  | Algorithm1                             |         |
| - TPC step size                                            | 1dB                                    |         |
| - Δ <sub>ACK</sub>                                         | Not Present                            | REL-5   |
| - ΔNACK                                                    | Not Present                            | REL-5   |
| - Ack-Nack repetition factor                               | Not Present                            | REL-5   |
| - CHOICE mode                                              | FDD                                    |         |
| - Scrambling code type                                     | Long                                   |         |
| - Scrambling code number                                   | 0 (0 to 16777215)                      |         |
| - Number of DPDCH                                          | Not Present (1)                        |         |
| - Spreading factor                                         | 256                                    |         |
| - TFCI existence                                           | TRUE                                   |         |
| - Number of FBI bit                                        | Not Present(0)                         |         |
| - Puncturing Limit                                         | 1                                      |         |
| Downlink information common for all radio links            |                                        |         |
| - Downlink DPCH info common for all RL                     |                                        |         |
| - Downlink DPCH into common for all RL - Timing Indication | Initialise                             |         |
| _                                                          | Not Present                            |         |
| - CFN-targetSFN frame offset                               | NOT FIESEIIL                           |         |
| - Downlink DPCH power control information                  | EDD                                    |         |
| - CHOICE mode                                              | FDD                                    |         |
| - DPC mode<br>- CHOICE mode                                | 0 (single)<br>FDD                      |         |
|                                                            |                                        |         |
| - Power offset P Pilot-DPDCH                               | 0<br>Not Present                       |         |
| - DL rate matching restriction information                 | Not Present                            |         |
| - Spreading factor                                         | 256                                    |         |
| - Fixed or Flexible Position                               | Fixed                                  |         |
| - TFCI existence                                           | FALSE                                  |         |
| - CHOICE SF                                                |                                        |         |
| - Number of bits for Pilot bits                            | 8<br>Not Brooms                        |         |
| - DPCH compressed mode info                                | Not Present                            |         |
| - TX Diversity mode                                        | None                                   |         |
| - SSDT information                                         | Not Present                            |         |
| - Default DPCH Offset Value                                | Arbitrary set to value 0306688 by step |         |
| Describing information for a second line in the line is    | of 512                                 |         |
| Downlink information for per radio links list              |                                        |         |
| -Downlink information for each radio links                 | EDD                                    |         |
| - CHOICE mode                                              | FDD                                    |         |
| - Primary CPICH info                                       | 100                                    |         |
| - Primary scrambling code                                  | 100                                    |         |
| - PDSCH with SHO DCH info                                  | Not Present                            |         |
| - PDSCH code mapping                                       | Not Present                            |         |
| - Downlink DPCH info for each RL                           |                                        |         |
| - CHOICE mode                                              | FDD                                    |         |
| - Primary CPICH usage for channel estimation               | Primary CPICH may be used              |         |
| - DPCH frame offset                                        | Set to value : Default DPCH Offset     |         |
|                                                            | Value mod 38400                        |         |
| - Secondary CPICH info                                     | Not Present                            |         |
| - DL channelisation code                                   |                                        |         |
| - Secondary scrambling code                                | Not Present                            |         |
| - Spreading factor                                         | 256                                    |         |
| - Code number                                              | 192                                    |         |

| Information Element                  | Value/remark | Version |
|--------------------------------------|--------------|---------|
| - Scrambling code change             | Not Present  |         |
| - TPC combination index              | 0            |         |
| - SSDT Cell Identity                 | Not Present  |         |
| - Closed loop timing adjustment mode | Not Present  |         |
| - SCCPCH information for FACH        | Not Present  |         |

## Contents of SECURITY MODE COMMAND message: AM

| Information Element                                                                                    | Condition | Value/remark                                                                                |
|--------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|
| Message Type                                                                                           | A1, A2    |                                                                                             |
| RRC transaction identifier                                                                             |           | Arbitrarily selects an integer between 0 and 3                                              |
| Integrity check info                                                                                   |           |                                                                                             |
| - Message authentication code                                                                          |           | Set to an arbitrarily selected 32-bits integer.                                             |
|                                                                                                        |           | The first/ leftmost bit of the bit string contains                                          |
|                                                                                                        |           | the most significant bit of the MAC-I.                                                      |
| - RRC Message Sequence Number                                                                          |           | Set to an arbitrarily selected integer between                                              |
|                                                                                                        |           | 0 and 15                                                                                    |
| Security capability                                                                                    |           |                                                                                             |
| - Ciphering algorithm capability                                                                       |           |                                                                                             |
| - UEA0                                                                                                 |           | If the UE has indicated support for ciphering                                               |
|                                                                                                        |           | algorithm UEA0 in the IE "security capability"                                              |
|                                                                                                        |           | in the RRC CONNECTION SETUP                                                                 |
|                                                                                                        |           | COMPLETE message, this IE is set to TRUE.                                                   |
| - UEA1                                                                                                 |           | If the UE has indicated support for ciphering                                               |
|                                                                                                        |           | algorithm UEA1 in the IE "security capability"                                              |
|                                                                                                        |           | in the RRC CONNECTION SETUP                                                                 |
|                                                                                                        |           | COMPLETE message, this IE is set to TRUE.                                                   |
| - Spare                                                                                                |           | Spare 2-15 = FALSE                                                                          |
| - Integrity protection algorithm capability                                                            |           | 0000000000000010B (UIA1)                                                                    |
| - UIA1                                                                                                 |           | TRUE                                                                                        |
| - Spare                                                                                                |           | Spare 0 and Spare 2-15 = FALSE                                                              |
| Ciphering mode info                                                                                    |           | This presence of this IE is dependent on IXIT                                               |
| orphisming mode with                                                                                   |           | statements in TS 34.123-2. If ciphering is                                                  |
|                                                                                                        |           | indicated to be active, this IE present with the                                            |
|                                                                                                        |           | values of the sub IEs as stated below. Else,                                                |
|                                                                                                        |           | this IE is omitted.                                                                         |
| - Ciphering mode command                                                                               |           | Start/restart                                                                               |
| - Ciphering algorithm                                                                                  |           | UEA0 or UEA1. The indicated algorithm must                                                  |
|                                                                                                        |           | be one of the algorithms supported by the UE                                                |
|                                                                                                        |           | as indicated in the IE "security capability" in                                             |
|                                                                                                        |           | the RRC CONNECTION SETUP COMPLETE                                                           |
|                                                                                                        |           | message.                                                                                    |
| - Ciphering activation time for DPCH                                                                   |           | Not Present                                                                                 |
| - Radio bearer downlink ciphering activation time                                                      |           | Not i resent                                                                                |
| info                                                                                                   |           |                                                                                             |
| - Radio bearer activation time                                                                         |           |                                                                                             |
| - RB identity                                                                                          |           | 1                                                                                           |
| - RLC sequence number                                                                                  |           | Current RLC SN+2                                                                            |
| - RB identity                                                                                          |           | 2                                                                                           |
| - RLC sequence number                                                                                  |           | Current RLC SN+2                                                                            |
| - RB identity                                                                                          |           | 3                                                                                           |
| - RLC sequence number                                                                                  |           | Current RLC SN + 2                                                                          |
| - RB identity                                                                                          |           | 4                                                                                           |
| - RLC sequence number                                                                                  |           | Current RLC SN + 2                                                                          |
| Integrity protection mode info                                                                         |           | Culletit NEC SIN + 2                                                                        |
| - Integrity protection mode command                                                                    |           | Start                                                                                       |
| Downlink integrity protection activation info                                                          |           | Not Present                                                                                 |
|                                                                                                        |           | UIA1                                                                                        |
| <ul> <li>Integrity protection algorithm</li> <li>Integrity protection initialisation number</li> </ul> |           | -                                                                                           |
| - integrity protection initialisation number                                                           |           | SS selects an arbitrary 32 bits number for FRESH.                                           |
|                                                                                                        |           | 1                                                                                           |
|                                                                                                        |           | The first/ leftmost bit of the bit string contains the most significant bit of the FRESH.A1 |
| CN domain identity                                                                                     |           | CS or PS                                                                                    |
| CN domain identity                                                                                     | ۸1        | Not Present                                                                                 |
| UE system specific security capability                                                                 | A1        | INOU I LESCIIL                                                                              |
| UE system specific security capability                                                                 | A2        |                                                                                             |
| - Inter-RAT UE security capability                                                                     |           | CSM                                                                                         |
| - CHOICE system                                                                                        |           | GSM                                                                                         |
| - GSM security capability                                                                              |           | The indicated algorithms must be the same                                                   |
|                                                                                                        |           | as the algorithms supported by the UE as                                                    |
|                                                                                                        | I         | indicated in the IE " UE system specific                                                    |
|                                                                                                        |           |                                                                                             |
|                                                                                                        |           | capability " in the RRC CONNECTION SETUP COMPLETE message.                                  |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

# 9.2.2 Default Message Contents for RF (TDD)

#### Contents of Activate RB Test Mode message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 44h            |

#### Contents of Close UE Test Loop message

| Information Element          | Value/remark    |
|------------------------------|-----------------|
| Protocol discriminator       | F (Length 1/2)  |
| Skip indicator               | 0 (Length 1/2)  |
| Message Type                 | 40h             |
| UE test loop mode            | 00h             |
| UE test loop mode 1 LB setup | 03h 00h F4h 0Ah |

#### Contents of Open UE Test Loop message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 42h            |

#### Contents of PAGING TYPE 1 message: TM (CS)

| Information Element                             | Value/remark                                              |
|-------------------------------------------------|-----------------------------------------------------------|
| Message Type                                    |                                                           |
| Paging record list                              |                                                           |
| -Paging record                                  |                                                           |
| <ul> <li>CHOICE Used paging identity</li> </ul> | CN identity                                               |
| - Paging cause                                  | Terminating Streaming Call                                |
| - CN domain identity                            | CS domain                                                 |
| - CHOICE UE identity                            |                                                           |
| - IMSI (GSM-MAP)                                | Set to the same octet string as in the IMSI stored in the |
|                                                 | USIM card                                                 |
| BCCH modification info                          | Not Present                                               |

## Contents of PAGING TYPE 1 message: TM (PS)

| Information Element                             | Value/remark                                              |
|-------------------------------------------------|-----------------------------------------------------------|
| Message Type                                    |                                                           |
| Paging record list                              |                                                           |
| -Paging record                                  |                                                           |
| <ul> <li>CHOICE Used paging identity</li> </ul> | CN identity                                               |
| - Paging cause                                  | Terminating Interactive Call                              |
| - CN domain identity                            | PS domain                                                 |
| - CHOICE UE identity                            |                                                           |
| - IMSI (GSM-MAP)                                | Set to the same octet string as in the IMSI stored in the |
|                                                 | USIM card                                                 |
| BCCH modification info                          | Not Present                                               |

Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

| Information Element                                                                           | Condition | Value/remark                                            | Version |
|-----------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------|---------|
| Message Type RRC transaction identifier                                                       | A1,A3     | Arbitrarily colocts on integer between 0 and 2          |         |
| Integrity check info                                                                          |           | Arbitrarily selects an integer between 0 and 3          |         |
| - message authentication code                                                                 |           | SS calculates the value of MAC-I for this               |         |
| - message admentication code                                                                  |           | message and writes to this IE. The first/ leftmost      |         |
|                                                                                               |           | bit of the bit string contains the most significant bit |         |
|                                                                                               |           | of the MAC-I.                                           |         |
| - RRC message sequence number                                                                 |           | SS provides the value of this IE, from its internal     |         |
| Titto moodago ooquonoo namboi                                                                 |           | counter.                                                |         |
| Integrity protection mode info                                                                |           | Not Present                                             |         |
| Ciphering mode info                                                                           |           | Not Present                                             |         |
| Activation time                                                                               |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                        |         |
| New U-RNTI                                                                                    |           | Not Present                                             |         |
| New C-RNTI                                                                                    |           | Not Present                                             |         |
| New DSCH-RNTI                                                                                 |           | Not Present                                             |         |
| New H-RNTI                                                                                    |           | Not Present                                             | REL-5   |
| RRC State indicator                                                                           |           | CELL_DCH                                                |         |
| UTRAN DRX cycle length coefficient                                                            |           | Not Present                                             |         |
| CN information info                                                                           |           | Not Present                                             |         |
| URA identity                                                                                  |           | Not Present                                             |         |
| CHOICE specification mode                                                                     |           | Complete specification                                  | REL-5   |
| - Complete specification                                                                      |           |                                                         | REL-5   |
| - Signalling RB information to setup                                                          | L         | Not Present                                             |         |
| - RAB information for setup list                                                              | A1        |                                                         |         |
| - RAB information for setup                                                                   |           |                                                         |         |
| - RAB info                                                                                    |           |                                                         |         |
| - RAB identity                                                                                |           | 0000 0001B                                              |         |
|                                                                                               |           | The first/ leftmost bit of the bit string contains the  |         |
| CNI domocio idomtito                                                                          |           | most significant bit of the RAB identity.               |         |
| <ul> <li>CN domain identity</li> <li>NAS Synchronization Indicator</li> </ul>                 |           | CS domain Not Present                                   |         |
| - Re-establishment timer                                                                      |           | UseT314                                                 |         |
| - RB information to setup list                                                                |           | 0561314                                                 |         |
| - RB information to setup                                                                     |           |                                                         |         |
| - RB identity                                                                                 |           | 10                                                      |         |
| - PDCP info                                                                                   |           | Not Present                                             |         |
| - CHOICE RLC info type                                                                        |           | RLC info                                                |         |
| - CHOICE Uplink RLC mode                                                                      |           | TM RLC                                                  |         |
| - Transmission RLC discard                                                                    |           | Not Present                                             |         |
| - Segmentation indication                                                                     |           | FALSE                                                   |         |
| - CHOICE Downlink RLC mode                                                                    |           | TM RLC                                                  |         |
| <ul> <li>Segmentation indication</li> </ul>                                                   |           | FALSE                                                   |         |
| - RB mapping info                                                                             |           |                                                         |         |
| <ul> <li>Information for each multiplexing option</li> </ul>                                  |           |                                                         |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>                                     |           | Not Present                                             |         |
| - Number of uplink RLC logical channels                                                       |           | 1                                                       |         |
| - Uplink transport channel type                                                               |           | DCH                                                     |         |
| - UL Transport channel identity                                                               |           | Net Breeze                                              |         |
| - Logical channel identity                                                                    |           | Not Present                                             |         |
| - CHOICE RLC size list                                                                        |           | Configured                                              |         |
| - MAC logical channel priority                                                                |           | 7                                                       |         |
| <ul> <li>Downlink RLC logical channel info</li> <li>Number of downlink RLC logical</li> </ul> |           | 1                                                       |         |
| - Number of downlink RLC logical channels                                                     |           | 1                                                       |         |
| - Downlink transport channel type                                                             |           | DCH                                                     |         |
| - DL DCH Transport channel identity                                                           |           | 6                                                       |         |
| - DL DSCH Transport channel identity                                                          |           | Not Present                                             |         |
| - Logical channel identity                                                                    |           | Not Present                                             |         |
| RAB information for setup list                                                                | A3        |                                                         |         |
| - RAB information for setup                                                                   | 1         |                                                         |         |
| - RAB info                                                                                    |           |                                                         |         |
| - RAB identity                                                                                |           | 0000 0101B                                              |         |
| · · · · · · · · · · · · · · · · · · ·                                                         |           | The first/ leftmost bit of the bit string contains the  |         |
|                                                                                               |           |                                                         |         |
|                                                                                               |           | most significant bit of the RAB identity.               |         |

| Information Element                                       | Condition | Value/remark                                 | Version |
|-----------------------------------------------------------|-----------|----------------------------------------------|---------|
| - NAS Synchronization Indicator                           |           | Not Present                                  |         |
| - Re-establishment timer                                  |           | UseT314                                      |         |
| - RB information to setup list                            |           |                                              |         |
| - RB information to setup                                 |           |                                              |         |
| - RB identity                                             |           | 20                                           |         |
| - PDCP info                                               |           | Not Present                                  |         |
| - CHOICE RLC info type                                    |           | RLC info                                     |         |
| - CHOICE Uplink RLC mode                                  |           | AM RLC                                       |         |
| - Transmission RLC discard                                |           |                                              |         |
| - CHOICE SDU discard mode                                 |           | No discard                                   |         |
| - MAX_DAT                                                 |           | 15                                           |         |
| - Transmission window size                                |           | 128                                          |         |
| - Timer_RST                                               |           | 500                                          |         |
| - Max_RST                                                 |           | 4                                            |         |
| - Polling info                                            |           |                                              |         |
| - Timer_poll_prohibit                                     |           | 200                                          |         |
| - Timer_poll                                              |           | 200                                          |         |
| - Poll_SDU                                                |           | 1                                            |         |
| - Last transmission PDU poll                              |           | TRUE                                         |         |
| - Last retransmission PDU poll                            |           | TRUE<br>  99                                 |         |
| - Poll_Windows                                            |           | Not Present                                  |         |
| - Timer_poll_periodic - CHOICE Downlink RLC mode          |           | AM RLC                                       |         |
|                                                           |           | TRUE                                         |         |
| In-sequence delivery     Receiving window size            |           | 128                                          |         |
| - Downlink RLC status info                                |           | 120                                          |         |
| - Timer_status_prohibit                                   |           | 200                                          |         |
| - Timer_status_profilibit                                 |           | 200                                          |         |
| - Missing PDU indicator                                   |           | TRUE                                         |         |
| - Timer_STATUS_periodic                                   |           | Not Present                                  |         |
| - RB mapping info                                         |           | Not i resent                                 |         |
| - Information for each multiplexing option                |           | 2RBMuxOptions                                |         |
| - RLC logical channel mapping indicator                   |           | Not Present                                  |         |
| - Number of uplink RLC logical channels                   |           | 1                                            |         |
| - Uplink transport channel type                           |           | DCH                                          |         |
| - UL Transport channel identity                           |           | 1                                            |         |
| - Logical channel identity                                |           | Not Present                                  |         |
| - CHOICE RLC size list                                    |           | Configured                                   |         |
| - MAC logical channel priority                            |           | 8                                            |         |
| - Downlink RLC logical channel info                       |           |                                              |         |
| - Number of downlink RLC logical                          |           | 1                                            |         |
| channels                                                  |           |                                              |         |
| <ul> <li>Downlink transport channel type</li> </ul>       |           | DCH                                          |         |
| <ul> <li>DL DCH Transport channel identity</li> </ul>     |           | 6                                            |         |
| <ul> <li>DL DSCH Transport channel identity</li> </ul>    |           | Not Present                                  |         |
| <ul> <li>Logical channel identity</li> </ul>              |           | Not Present                                  |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul> |           | Not Present                                  |         |
| - Number of uplink RLC logical channels                   |           | 1                                            |         |
| <ul> <li>Uplink transport channel type</li> </ul>         |           | RACH                                         |         |
| <ul> <li>UL Transport channel identity</li> </ul>         |           | Not Present                                  |         |
| <ul> <li>Logical channel identity</li> </ul>              |           | 7                                            |         |
| - CHOICE RLC size list                                    |           | Explicit List                                |         |
| - RLC size index                                          |           | Reference to TS34.108 clause 6 Parameter Set |         |
| - MAC logical channel priority                            |           | 8                                            |         |
| - Downlink RLC logical channel info                       |           |                                              |         |
| - Number of downlink RLC logical                          |           | 1                                            |         |
| channels                                                  |           |                                              |         |
| - Downlink transport channel type                         |           | FACH                                         |         |
| - DL DCH Transport channel identity                       |           | Not Present                                  |         |
| - DL DSCH Transport channel identity                      |           | Not Present                                  |         |
| - Logical channel identity                                | 04.00     | Not Present                                  |         |
| RB information to be affected list                        | A1,A3     | Not Present                                  |         |
| Downlink counter synchronisation info                     | 04.00     | Not Present                                  |         |
| UL Transport channel information for all                  | A1,A3     |                                              |         |
| transport channels                                        |           | Not Dropont                                  |         |
| - PRACH TFCS                                              |           | Not Present                                  |         |
| - CHOICE mode                                             |           | TDD                                          |         |

| Information Element                                | Condition | Value/remark                                | Version |
|----------------------------------------------------|-----------|---------------------------------------------|---------|
| -Individual UL CCTrCH information                  |           |                                             |         |
| - TFCS ID                                          |           | (This IE is repeated for TFC number.)       |         |
| <ul> <li>Allowed Transport Format</li> </ul>       |           | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to |         |
| combination                                        |           | TS34.108 clause 6 Parameter Set.)           |         |
| - PRACH TFCS                                       |           | (This IE is repeated for TFC number.)       |         |
| - CHOICE TFCI signalling                           |           | Normal                                      |         |
| - TFCI Field 1 information                         |           |                                             |         |
| - TFCS complete reconfigure                        |           |                                             |         |
| information                                        |           |                                             |         |
| - CHOICE TFCS Size                                 |           | Number of used bits must be enough to cover |         |
|                                                    |           | all combinations of CTFC from clauses 6.    |         |
|                                                    |           | Refer to TS34.108 clause 6 Parameter Set    |         |
| - CTFC information                                 |           | Not Present                                 |         |
| - CHOICE mode                                      |           | TDD                                         |         |
| - Individual UL CCTrCH information                 |           | Not Present                                 |         |
| Deleted UL TrCH information list                   |           | Not Present                                 |         |
| Added or Reconfigured UL TrCH information list     | A1        | 1                                           |         |
| - Added or Reconfigured UL TrCH                    | 731       |                                             |         |
| information                                        |           |                                             |         |
| - Uplink transport channel type                    |           | DCH                                         |         |
| - UL Transport channel identity                    |           | 1                                           |         |
| - TFS                                              |           |                                             |         |
| - CHOICE Transport channel type                    |           | Dedicated transport channels                |         |
| - Dynamic Transport Format Information             |           |                                             |         |
| - RLC size                                         |           | Reference to TS34.108 clause 6.10 Parameter |         |
|                                                    |           | Set                                         |         |
| - Number of TBs and TTI List                       |           | (This IE is repeated for TFI number.)       |         |
| - Transmission Time Interval                       |           | Not Present                                 |         |
| - Number of Transport blocks                       |           | Reference to TS34.108 clause 6.10 Parameter |         |
| ·                                                  |           | Set                                         |         |
| - Transmission Time Interval                       |           | Not Present                                 |         |
| <ul> <li>Number of Transport blocks</li> </ul>     |           | 1                                           |         |
| - CHOICE Logical Channel List                      |           | ALL                                         |         |
| - Semi-static Transport Format Information         |           |                                             |         |
| <ul> <li>Transmission time interval</li> </ul>     |           | Reference to TS34.108 clause 6.10 Parameter |         |
|                                                    |           | Set                                         |         |
| - Type of channel coding                           |           | Reference to TS34.108 clause 6.10 Parameter |         |
|                                                    |           | Set                                         |         |
| - Coding Rate                                      |           | Reference to TS34.108 clause 6.10 Parameter |         |
|                                                    |           | Set                                         |         |
| - Rate matching attribute                          |           | Reference to TS34.108 clause 6.10 Parameter |         |
| 000 -:                                             |           | Set                                         |         |
| - CRC size                                         |           | Reference to TS34.108 clause 6.10 Parameter |         |
| CHOICE mode                                        | A1, A3    | Set TDD (no data)                           |         |
| DL Transport channel information common for        | A1, A3    | (100 data)                                  |         |
| all transport channel                              | 71,73     |                                             |         |
| - SCCPCH TFCS                                      |           | Not Present                                 |         |
| - CHOICE mode                                      |           | TDD                                         |         |
| - CHOICE DL parameters                             |           | Independent (Refer to TS34.108 clause 6)    |         |
| Deleted DL TrCH information list                   | A1,A3     | Not Present                                 |         |
| Added or Reconfigured DL TrCH information list     | 1.1,7.0   | 1                                           |         |
| - Added or Reconfigured DL TrCH                    |           |                                             |         |
| information                                        |           |                                             |         |
| - Downlink transport channel type                  |           | DCH                                         |         |
| - DL Transport channel identity                    |           | 6                                           |         |
| - CHOICE DL parameters                             |           | Same as UL                                  |         |
| - Uplink transport channel type                    |           | DCH                                         |         |
| - UL TrCH identity                                 |           | 1                                           |         |
| - DCH quality target                               |           |                                             |         |
| - BLER Quality value                               |           | Reference to TS34.108 clause 6              |         |
| Frequency info                                     | A1,A3     | Not Present                                 |         |
| Maximum allowed UL TX power                        |           | 30dBm                                       |         |
| CHOICE channel requirement                         |           | Uplink DPCH info                            |         |
| <ul> <li>Uplink DPCH power control info</li> </ul> |           |                                             |         |
| - CHOICE mode                                      |           | TDD                                         |         |
| - UL Target SIR                                    |           | Reference to TS34.108 Parameter set.        |         |

| Information Element                                     | Condition | Value/remark                                              | Version |
|---------------------------------------------------------|-----------|-----------------------------------------------------------|---------|
| - CHOICE UL OL PC info                                  |           | Individually signalled                                    |         |
| - CHOICE TDD option                                     |           | 3.84 Mcps                                                 |         |
| <ul> <li>Individual timeslot interference</li> </ul>    |           | ·                                                         |         |
| info                                                    |           |                                                           |         |
| - Individual timeslot interference                      |           |                                                           |         |
| - DPCH Constant Value                                   |           | Values are used for open loop power control,              |         |
| - CHOICE mode                                           |           | section 8 in TS 25.331                                    |         |
| - Uplink Timing Advance Control                         |           | Not Present                                               |         |
| - UL CCTrCH List                                        |           | Not i lesent                                              |         |
| - TFCS Id                                               |           | 1                                                         |         |
| - Time info                                             |           |                                                           |         |
| - Activation time                                       |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                          |         |
| - Duration                                              |           | Infinite                                                  |         |
| <ul> <li>Common timeslot info</li> </ul>                |           |                                                           |         |
| <ul> <li>2<sub>nd</sub> interleaving mode</li> </ul>    |           | Reference to TS34.108 clause 6.10 Parameter               |         |
|                                                         |           | Set                                                       |         |
| - TFCI coding                                           |           | Reference to TS34.108 clause 6.10 Parameter               |         |
| Donastonia a Lineit                                     |           | Set                                                       |         |
| - Puncturing Limit                                      |           | Reference to TS34.108 clause 6.10 Parameter Set           |         |
| - Repetition Period                                     |           | Reference to TS34.108 clause 6.10 Parameter               |         |
| - Repetition Fellod                                     |           | Set                                                       |         |
| - Repetition Length                                     |           | Reference to TS34.108 clause 6.10 Parameter               |         |
| 3, 3, 3, 3,                                             |           | Set                                                       |         |
| - First individual timeslot info                        |           |                                                           |         |
| <ul> <li>Timeslot number</li> </ul>                     |           | The number of an uplink timeslot that has                 |         |
|                                                         |           | unassigned codes.                                         |         |
| - TFCI existence                                        |           | TRUE                                                      |         |
| - Midamble shift and burst type                         |           | 0.0414                                                    |         |
| - CHOICE TDD option                                     |           | 3.84 Mcps                                                 |         |
| -CHOICE Burst Type                                      |           |                                                           |         |
| -Type 1<br>-Midamble Allocation                         |           | Default                                                   |         |
| Mode - Wildambie Allocation                             |           | Delauit                                                   |         |
| - Midamble configuration                                |           | As defined in 3GPP TS 25.221                              |         |
| burst type 1 and 3                                      |           |                                                           |         |
| <ul> <li>First timeslot channelisation codes</li> </ul> |           | Repeated (1,2) for each channelisation code               |         |
|                                                         |           | assigned in the slot to meet the needs of                 |         |
|                                                         |           | TS34.108 clause 6 Parameter Set.                          |         |
| - Channelisation code                                   |           | (i/SF) where i denotes an unassigned code                 |         |
|                                                         |           | matching the SF specified in TS34.108 clause              |         |
| - CHOICE more timeslots                                 |           | 6 Parameter Set. The presence of this IE depends upon the |         |
| - CHOICE More unlesions                                 |           | number of resources specified in TS34.108                 |         |
|                                                         |           | section 6 and the number of slots in which they           |         |
|                                                         |           | are being assigned.                                       |         |
| CHOICE Mode                                             |           | TDD (no data)                                             |         |
| Downlink HS-PDSCH Information                           | A1,A3     | Not Present                                               | REL-5   |
| Downlink information common for all radio links         | A1,A3     |                                                           |         |
| - Downlink DPCH info common for all RL                  |           |                                                           |         |
| - Timing indicator                                      |           | Maintain                                                  |         |
| - CFN-targetSFN frame offset                            |           | Not Present                                               |         |
| - Downlink DPCH power control information               |           |                                                           |         |
| - CHOICE mode                                           |           | TDD                                                       |         |
| - DPC mode                                              |           | 0 (single)                                                |         |
| - CHOICE TDD mode                                       |           | 3.84 Mcps (no data)                                       |         |
| - Default DPCH Offset Value                             |           | Not Present                                               |         |
| Downlink information for per radio link list            | A1,A3     |                                                           |         |
| - Downlink information for each radio link              |           |                                                           |         |
| - CHOICE mode                                           |           | TDD                                                       |         |
| - Primary CCPCH info                                    |           |                                                           |         |
| - CHOICE SyncCase                                       |           | Sync Case 1                                               |         |
| - Timeslot                                              |           | PCCPCH timeslot                                           |         |
| - Cell parameters ID                                    |           | 0                                                         |         |
| <ul> <li>SCTD indicator</li> </ul>                      | 1         | 1                                                         | 1       |

|       | Information Element                             | Condition | Value/remark                                   | Version |
|-------|-------------------------------------------------|-----------|------------------------------------------------|---------|
| - D   | ownlink DPCH info for each RL                   |           |                                                |         |
|       | - CHOICE mode                                   |           | TDD                                            |         |
|       | - DL CCTrCH List                                |           |                                                |         |
|       | - TFCS ID                                       |           | 1                                              |         |
|       | - Time info                                     |           |                                                |         |
|       | <ul> <li>Activation time</li> </ul>             |           | (256+CFN-(CFN mod 8 + 8))mod 256               |         |
|       | - Duration                                      |           | infinite                                       |         |
|       | <ul> <li>Common timeslot info</li> </ul>        |           |                                                |         |
|       | - 2nd interleaving mode                         |           | Reference to TS34.108                          |         |
|       | - TFCI coding                                   |           | TRUE                                           |         |
|       | - Puncturing limit                              |           | Reference to TS34.108 clause 6 Parameter set   |         |
|       | - Repetition period                             |           | 1                                              |         |
|       | - Repetition length                             |           | Empty                                          |         |
|       | <ul> <li>Downlink DPCH timeslots and</li> </ul> |           |                                                |         |
| codes |                                                 |           |                                                |         |
|       | <ul> <li>Individual timeslot info</li> </ul>    |           |                                                |         |
|       | - Timeslot number                               |           | The number of a downlink timeslot that has     |         |
|       |                                                 |           | unassigned codes.                              |         |
|       | - TFCI existence                                |           | TRUE                                           |         |
|       | <ul> <li>Midamble shift and burst</li> </ul>    |           |                                                |         |
| type  |                                                 |           |                                                |         |
|       | <ul> <li>CHOICE TDD option</li> </ul>           |           | 3.84 Mcps                                      |         |
|       | -CHOICE Burst Type                              |           | ·                                              |         |
|       | -Type 1                                         |           |                                                |         |
|       | -Midamble Allocation                            |           | Default                                        |         |
| Mode  |                                                 |           |                                                |         |
|       | - Midamble                                      |           | As defined in 3GPP TS 25.221                   |         |
|       | configuration burst type                        |           |                                                |         |
|       | 1 and 3                                         |           |                                                |         |
|       | - First timeslot channelisation                 |           |                                                |         |
| codes |                                                 |           |                                                |         |
|       | - First channelisation code                     |           | (i/SF) where i is the lowest numbered code     |         |
|       |                                                 |           | that is being assigned and SF is specified in  |         |
|       |                                                 |           | TS34.108 clause 6 Parameter Set                |         |
|       | <ul> <li>Last channelisation code</li> </ul>    |           | (j/SF) where j is the highest numbered code    |         |
|       |                                                 |           | that is being assigned in the slot.            |         |
|       | - Bitmap                                        |           | Bitmap of the codes that are being assigned in | 1       |
|       | ·                                               |           | the slot.                                      |         |
|       | - CHOICE more timeslots                         |           | The presence of this IE depends upon whether   |         |
|       |                                                 |           | the requirements of TS34.108 clause 6          |         |
|       |                                                 |           | Parameter Set could be met by the codes that   |         |
|       |                                                 |           | have been assigned in the first timeslot       |         |
|       | - UL CCTrCH TPC List                            |           | Not Present                                    |         |
|       | -SCCPCH information for FACH                    |           | Not Present                                    |         |

| Co    | ndition                                                                                                | Explanation                                                                             |
|-------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A1    |                                                                                                        | This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is |
|       |                                                                                                        | selected.                                                                               |
| A3    |                                                                                                        | This IE is needed for acknowledged mode.                                                |
| NOTE: | NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the |                                                                                         |
|       | combination of UL and DL channels or test requirements.                                                |                                                                                         |

Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

| Information Element                                                                                    | Condition | Value/remark                                                                   | Versio                                           |
|--------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------|--------------------------------------------------|
| Message Type                                                                                           | A1,A3     | Aubituarily aplants on intersor between 0 and 2                                |                                                  |
| RRC transaction identifier                                                                             |           | Arbitrarily selects an integer between 0 and 3                                 |                                                  |
| Integrity check info                                                                                   |           | SS calculates the value of MAC-I for this                                      |                                                  |
| - message authentication code                                                                          |           | message and writes to this IE. The first/                                      |                                                  |
|                                                                                                        |           | 1                                                                              |                                                  |
|                                                                                                        |           | leftmost bit of the bit string contains the most significant bit of the MAC-I. |                                                  |
| DDC massage anguance number                                                                            |           | SS provides the value of this IE, from its                                     |                                                  |
| - RRC message sequence number                                                                          |           | internal counter.                                                              |                                                  |
| Integrity protection mode info                                                                         |           | Not Present                                                                    |                                                  |
| Ciphering mode info                                                                                    |           | Not Present                                                                    |                                                  |
| Activation time                                                                                        |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                               |                                                  |
| New U-RNTI                                                                                             |           | Not Present                                                                    |                                                  |
| New C-RNTI                                                                                             |           | Not Present                                                                    |                                                  |
| New DSCH-RNTI                                                                                          |           | Not Present                                                                    |                                                  |
| New H-RNTI                                                                                             |           | Not Present                                                                    | REL-5                                            |
| RRC State indicator                                                                                    |           | CELL_DCH                                                                       | I KEE 5                                          |
| UTRAN DRX cycle length coefficient                                                                     |           | Not Present                                                                    |                                                  |
| CN information info                                                                                    |           | Not Present                                                                    |                                                  |
| URA identity                                                                                           |           | Not Present                                                                    |                                                  |
| CHOICE specification mode                                                                              |           | Complete specification                                                         | REL-5                                            |
| - Complete specification                                                                               |           |                                                                                | REL-5                                            |
| - Signalling RB information to setup                                                                   |           | Not Present                                                                    | 1122                                             |
| - RAB information for setup list                                                                       | A1        |                                                                                |                                                  |
| - RAB information for setup                                                                            |           |                                                                                |                                                  |
| - RAB info                                                                                             |           |                                                                                |                                                  |
| - RAB identity                                                                                         |           | 0000 0001B                                                                     |                                                  |
| <b>.</b>                                                                                               |           | The first/ leftmost bit of the bit string contains                             |                                                  |
|                                                                                                        |           | the most significant bit of the RAB identity.                                  |                                                  |
| - CN domain identity                                                                                   |           | CS domain                                                                      |                                                  |
| - NAS Synchronization Indicator                                                                        |           | Not Present                                                                    |                                                  |
| - Re-establishment timer                                                                               |           | UseT314                                                                        |                                                  |
| - RB information to setup list                                                                         |           |                                                                                |                                                  |
| - RB information to setup                                                                              |           |                                                                                |                                                  |
| - RB identity                                                                                          |           | 10                                                                             |                                                  |
| - PDCP info                                                                                            |           | Not Present                                                                    |                                                  |
| - CHOICE RLC info type                                                                                 |           | RLC info                                                                       |                                                  |
| - CHOICE Uplink RLC mode                                                                               |           | TM RLC                                                                         |                                                  |
| - Transmission RLC discard                                                                             |           | Not Present                                                                    |                                                  |
| - Segmentation indication                                                                              |           | FALSE                                                                          |                                                  |
| - CHOICE Downlink RLC mode                                                                             |           | TM RLC                                                                         |                                                  |
| - Segmentation indication                                                                              |           | FALSE                                                                          |                                                  |
| - RB mapping info                                                                                      |           |                                                                                |                                                  |
| - Information for each multiplexing option                                                             |           | N (B)                                                                          |                                                  |
| - RLC logical channel mapping indicator                                                                |           | Not Present                                                                    |                                                  |
| - Number of uplink RLC logical channels                                                                |           | 1                                                                              |                                                  |
| - Uplink transport channel type                                                                        |           | DCH                                                                            |                                                  |
| - UL Transport channel identity                                                                        |           | 1<br>Not Propert                                                               |                                                  |
| <ul> <li>Logical channel identity</li> <li>CHOICE RLC size list</li> </ul>                             |           | Not Present                                                                    |                                                  |
|                                                                                                        |           | Configured 7                                                                   |                                                  |
| - MAC logical channel priority                                                                         |           | '                                                                              |                                                  |
| <ul> <li>Downlink RLC logical channel info</li> <li>Number of downlink RLC logical channels</li> </ul> |           | 1                                                                              |                                                  |
| Downlink transport channel type                                                                        |           | DCH                                                                            |                                                  |
| DL DCH Transport channel identity                                                                      |           | 6                                                                              |                                                  |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity                               | 1         | Not Present                                                                    |                                                  |
| - DE DOCH Transport channel identity - Logical channel identity                                        | 1         | Not Present                                                                    |                                                  |
| RAB information for setup list                                                                         | A3        | 110t Frootit                                                                   | <del>                                     </del> |
| - RAB information for setup                                                                            | 73        |                                                                                |                                                  |
| I I I I I I I I I I I I I I I I I I I                                                                  | 1         |                                                                                |                                                  |
|                                                                                                        | •         | 1                                                                              | 1                                                |
| - RAB info                                                                                             |           | 0000 0101B                                                                     |                                                  |
|                                                                                                        |           | 0000 0101B The first/leftmost bit of the bit string contains                   |                                                  |
| - RAB info                                                                                             |           | The first/ leftmost bit of the bit string contains                             |                                                  |
| - RAB info                                                                                             |           |                                                                                |                                                  |

| Information Element                                       | Condition | Value/remark                             | Versio |
|-----------------------------------------------------------|-----------|------------------------------------------|--------|
| - Re-establishment timer                                  |           | UseT314                                  |        |
| - RB information to setup list                            |           |                                          |        |
| - RB information to setup                                 |           |                                          |        |
| - RB identity                                             |           | 20                                       |        |
| - PDCP info                                               |           | Not Present                              |        |
| - CHOICE RLC info type                                    |           | RLC info                                 |        |
| - CHOICE Uplink RLC mode                                  |           | AM RLC                                   |        |
| - Transmission RLC discard                                |           |                                          |        |
| - CHOICE SDU discard mode                                 |           | No discard                               |        |
| - MAX_DAT                                                 |           | 15                                       |        |
| - Transmission window size                                |           | 128                                      |        |
| - Timer_RST                                               |           | 500                                      |        |
| - Max_RST                                                 |           | 4                                        |        |
| - Polling info                                            |           | 4                                        |        |
|                                                           |           | 200                                      |        |
| - Timer_poll_prohibit                                     |           | 200                                      |        |
| - Timer_poll                                              |           | 200                                      |        |
| - Poll_SDU                                                |           | 1                                        |        |
| - Last transmission PDU poll                              |           | TRUE                                     |        |
| - Last retransmission PDU poll                            |           | TRUE                                     |        |
| - Poll_Windows                                            |           | 99                                       |        |
| - Timer_poll_periodic                                     |           | Not Present                              |        |
| - CHOICE Downlink RLC mode                                |           | AM RLC                                   |        |
| - In-sequence delivery                                    |           | TRUE                                     |        |
| <ul> <li>Receiving window size</li> </ul>                 |           | 128                                      |        |
| <ul> <li>Downlink RLC status info</li> </ul>              |           |                                          |        |
| <ul> <li>Timer_status_prohibit</li> </ul>                 |           | 200                                      |        |
| - Timer_EPC                                               |           | 200                                      |        |
| - Missing PDU indicator                                   |           | TRUE                                     |        |
| - Timer_STATUS_periodic                                   |           | Not Present                              |        |
| - RB mapping info                                         |           |                                          |        |
| - Information for each multiplexing option                |           | 2RBMuxOptions                            |        |
| - RLC logical channel mapping indicator                   |           | Not Present                              |        |
| - Number of uplink RLC logical channels                   |           | 1                                        |        |
| - Uplink transport channel type                           |           | DCH                                      |        |
| - UL Transport channel identity                           |           | 1                                        |        |
| - Logical channel identity                                |           | Not Present                              |        |
| - CHOICE RLC size list                                    |           | Configured                               |        |
| - MAC logical channel priority                            |           | 8                                        |        |
|                                                           |           | 0                                        |        |
| - Downlink RLC logical channel info                       |           |                                          |        |
| - Number of downlink RLC logical channels                 |           | 1                                        |        |
| - Downlink transport channel type                         |           | DCH                                      |        |
| - DL DCH Transport channel identity                       |           | 6                                        |        |
| - DL DSCH Transport channel identity                      |           | Not Present                              |        |
| - Logical channel identity                                |           | Not Present                              |        |
| <ul> <li>RLC logical channel mapping indicator</li> </ul> |           | Not Present                              |        |
| <ul> <li>Number of uplink RLC logical channels</li> </ul> |           | 1                                        |        |
| <ul> <li>Uplink transport channel type</li> </ul>         |           | RACH                                     |        |
| <ul> <li>UL Transport channel identity</li> </ul>         |           | Not Present                              |        |
| <ul> <li>Logical channel identity</li> </ul>              |           | 7                                        |        |
| - CHOICE RLC size list                                    |           | Explicit List                            |        |
| - RLC size index                                          |           | Reference to TS34.108 clause 6 Parameter |        |
|                                                           |           | Set                                      |        |
| - MAC logical channel priority                            |           | 8                                        |        |
| - Downlink RLC logical channel info                       |           |                                          |        |
| Number of downlink RLC logical channels                   |           | 1                                        |        |
| - Downlink transport channel type                         |           | FACH                                     |        |
| - DL DCH Transport channel identity                       |           | Not Present                              |        |
| - DL DSCH Transport channel identity                      |           | Not Present                              |        |
| - Logical channel identity                                |           | Not Present                              |        |
| RB information to be affected list                        | A1,A3     | Not Present                              | +      |
|                                                           | A1,A3     |                                          |        |
| Downlink counter synchronisation info                     | A4 A2     | Not Present                              |        |
| UL Transport channel information for all transport        | A1,A3     |                                          |        |
| channels                                                  |           | Not Descript                             |        |
| - PRACH TFCS                                              |           | Not Present                              |        |
| - CHOICE mode                                             |           | TDD                                      |        |
| -Individual UL CCTrCH information                         |           |                                          |        |
| - TFCS ID                                                 |           | (This IE is repeated for TFC number.)    |        |

| Information Element                                                                              | Condition | Value/remark                                       | Versio |
|--------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------|--------|
| - Allowed Transport Format combination                                                           |           | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to        |        |
|                                                                                                  |           | TS34.108 clause 6 Parameter Set.)                  |        |
| - PRACH TFCS                                                                                     |           | (This IE is repeated for TFC number.)              |        |
| - CHOICE TFCI signalling                                                                         |           | Normal                                             |        |
| <ul> <li>TFCI Field 1 information</li> </ul>                                                     |           |                                                    |        |
| - TFCS complete reconfigure information                                                          |           |                                                    |        |
| - CHOICE TFCS Size                                                                               |           | Number of used bits must be enough to cover        |        |
|                                                                                                  |           | all combinations of CTFC from clauses 6.           |        |
|                                                                                                  |           | Refer to TS34.108 clause 6 Parameter Set           |        |
| <ul> <li>CTFC information</li> </ul>                                                             |           | Not Present                                        |        |
| - CHOICE mode                                                                                    |           | TDD                                                |        |
| - Individual UL CCTrCH information                                                               |           | Not Present                                        |        |
| Deleted UL TrCH information list                                                                 |           | Not Present                                        |        |
| Added or Reconfigured UL TrCH information list                                                   | A1        | 1                                                  |        |
| - Added or Reconfigured UL TrCH information                                                      | Α1        |                                                    |        |
| - Uplink transport channel type                                                                  |           | DCH                                                |        |
| - UL Transport channel identity                                                                  |           | 1                                                  |        |
| - TFS                                                                                            |           |                                                    |        |
| - CHOICE Transport channel type                                                                  |           | Dedicated transport channels                       |        |
| - Dynamic Transport Format Information                                                           |           | Dedicated transport charmers                       |        |
| - Bynamic Hansport Format information<br>- RLC size                                              |           | Reference to TS34.108 clause 6 Parameter           |        |
| - I/LO 312G                                                                                      |           | Set                                                |        |
| - Number of TBs and TTI List                                                                     |           |                                                    |        |
| - Transmission Time Interval                                                                     |           | (This IE is repeated for TFI number.)  Not Present |        |
| - Number of Transport blocks                                                                     |           | Reference to TS34.108 clause 6 Parameter           |        |
| - Number of Transport blocks                                                                     |           | Set                                                |        |
| - Transmission Time Interval                                                                     |           | Not Present                                        |        |
|                                                                                                  |           |                                                    |        |
| - Number of Transport blocks                                                                     |           | 1<br>  ALL                                         |        |
| - CHOICE Logical Channel List                                                                    |           | ALL                                                |        |
| <ul> <li>Semi-static Transport Format Information</li> <li>Transmission time interval</li> </ul> |           | Reference to TS34.108 clause 6 Parameter           |        |
| - Transmission time interval                                                                     |           | Set                                                |        |
| Time of channel anding                                                                           |           |                                                    |        |
| - Type of channel coding                                                                         |           | Reference to TS34.108 clause 6 Parameter           |        |
| Coding Data                                                                                      |           | Set                                                |        |
| - Coding Rate                                                                                    |           | Reference to TS34.108 clause 6 Parameter           |        |
| Data matching attails uto                                                                        |           | Set                                                |        |
| - Rate matching attribute                                                                        |           | Reference to TS34.108 clause 6 Parameter           |        |
| - CRC size                                                                                       |           | Set                                                |        |
| - CRC SIZE                                                                                       |           |                                                    |        |
| OHOLOE d-                                                                                        | A4 A0     | Set TDD (residets)                                 |        |
| CHOICE mode                                                                                      | A1, A3    | TDD (no data)                                      |        |
| DL Transport channel information common for all                                                  | A1,A3     |                                                    |        |
| transport channel                                                                                |           | Not Decemb                                         |        |
| - SCCPCH TFCS                                                                                    |           | Not Present                                        |        |
| - CHOICE mode                                                                                    |           | TDD (D. C. TOOM 100 )                              |        |
| - CHOICE DL parameters                                                                           |           | Independent (Refer to TS34.108 clause 6)           |        |
| Deleted DL TrCH information list                                                                 | A1,A3     | Not Present                                        |        |
| Added or Reconfigured DL TrCH information list                                                   |           | 1                                                  |        |
| <ul> <li>Added or Reconfigured DL TrCH information</li> </ul>                                    |           |                                                    |        |
| - Downlink transport channel type                                                                |           | DCH                                                |        |
| - DL Transport channel identity                                                                  |           | 6                                                  |        |
| - CHOICE DL parameters                                                                           |           | Same as UL                                         |        |
| - Uplink transport channel type                                                                  |           | DCH                                                |        |
| - UL TrCH identity                                                                               |           | 1                                                  |        |
| - DCH quality target                                                                             |           |                                                    |        |
| - BLER Quality value                                                                             |           | Reference to TS34.108 clause 6                     |        |
| Frequency info                                                                                   | A1,A3     | Not Present                                        |        |
| Maximum allowed UL TX power                                                                      |           | 30dBm                                              |        |
| CHOICE channel requirement                                                                       |           | Uplink DPCH info                                   |        |
| <ul> <li>Uplink DPCH power control info</li> </ul>                                               |           |                                                    |        |
| - CHOICE mode                                                                                    |           | TDD                                                |        |
| - UL Target SIR                                                                                  |           | Reference to TS34.108 Parameter set.               |        |
| - CHOICE UL OL PC info                                                                           |           | Individually signalled                             |        |
| - CHOICE TDD option                                                                              |           | 1.28 Mcps                                          |        |
| - TPC step size                                                                                  |           | 1 dB                                               |        |
| - Primary CCPCH Tx Power                                                                         |           | Not Present                                        |        |
| - CHOICE mode                                                                                    |           | TDD                                                |        |
| · · · · · · · · · · · · · · · · · · ·                                                            |           | · · · · · · · · · · · · · · · · · · ·              |        |

| Information Element                                          | Condition | Value/remark                                    | Versio |
|--------------------------------------------------------------|-----------|-------------------------------------------------|--------|
| <ul> <li>Uplink Timing Advance Control</li> </ul>            |           | Not Present                                     |        |
| - UL CCTrCH List                                             |           |                                                 |        |
| - TFCS Id                                                    |           | 1                                               |        |
| - Time info                                                  |           |                                                 |        |
| - Activation time                                            |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                |        |
| - Duration                                                   |           | Infinite                                        |        |
|                                                              |           | i i i i i i i i i i i i i i i i i i i           |        |
| - Common timeslot info                                       |           | D (                                             |        |
| <ul> <li>2<sub>nd</sub> interleaving mode</li> </ul>         |           | Reference to TS34.108 clause 6 Parameter        |        |
|                                                              |           | Set                                             |        |
| - TFCI coding                                                |           | Reference to TS34.108 clause 6 Parameter        |        |
| •                                                            |           | Set                                             |        |
| - Puncturing Limit                                           |           | Reference to TS34.108 clause 6 Parameter        |        |
| T directing Entite                                           |           | Set                                             |        |
| - Repetition Period                                          |           | Reference to TS34.108 clause 6 Parameter        |        |
| - Repetition Feriod                                          |           | Set                                             |        |
| <b>5</b> 22 1 2                                              |           | 9 9 9                                           |        |
| - Repetition Length                                          |           | Reference to TS34.108 clause 6 Parameter        |        |
|                                                              |           | Set                                             |        |
| <ul> <li>First individual timeslot info</li> </ul>           |           |                                                 |        |
| - Timeslot number                                            |           | The number of an uplink timeslot that has       |        |
|                                                              |           | unassigned codes.                               |        |
| - TFCI existence                                             |           | TRUE                                            |        |
| Midamble shift and burst type                                |           |                                                 |        |
|                                                              |           | 4.00 Mana                                       |        |
| - CHOICE TDD option                                          |           | 1.28 Mcps                                       |        |
| <ul> <li>Midamble allocation mode</li> </ul>                 |           | Default                                         |        |
| <ul> <li>Midamble configuration</li> </ul>                   |           | 16                                              |        |
| - CHOICE TDD option                                          |           | 1.28 Mcps TDD                                   |        |
| - Modulation                                                 |           | QPSK                                            |        |
| - SS-TPC Symbols                                             |           | 1                                               |        |
| - CHOICE Mode                                                |           | TDD                                             |        |
| - First timeslot channelisation codes                        |           | 1                                               |        |
| - First timeslot channelisation codes                        |           | Repeated (1,2) for each channelisation code     |        |
|                                                              |           | assigned in the slot to meet the needs of       |        |
|                                                              |           | TS34.108 clause 6 Parameter Set.                |        |
| - Channelisation code                                        |           | (i/SF) where i denotes an unassigned code       |        |
|                                                              |           | matching the SF specified in TS34.108 clause    |        |
|                                                              |           | 6 Parameter Set.                                |        |
| - CHOICE more timeslots                                      |           | The presence of this IE depends upon the        |        |
| - CHOICE IIIIesiots                                          |           |                                                 |        |
|                                                              |           | number of resources specified in TS34.108       |        |
|                                                              |           | section 6 and the number of slots in which they |        |
|                                                              |           | are being assigned.                             |        |
| CHOICE Mode                                                  |           | TDD (no data)                                   |        |
| Downlink HS-PDSCH Information                                | A1,A3     | Not Present                                     | REL-5  |
| Downlink information common for all radio links              | A1,A3     |                                                 |        |
| - Downlink DPCH info common for all RL                       | 711,710   |                                                 |        |
|                                                              |           |                                                 |        |
| - Timing indicator                                           |           | Maintain                                        |        |
| <ul> <li>CFN-targetSFN frame offset</li> </ul>               |           | Not Present                                     |        |
| <ul> <li>Downlink DPCH power control information</li> </ul>  |           |                                                 |        |
| - CHOICE mode                                                |           | TDD                                             |        |
| - TPC step size                                              |           | 1 dB                                            |        |
| - CHOICE TDD mode                                            |           | 1.28 Mcps                                       |        |
| - TSTD indicator                                             |           | TRUE                                            |        |
|                                                              |           |                                                 |        |
| - Default DPCH Offset Value                                  |           | Not Present                                     |        |
| Downlink information for per radio link list                 | A1,A3     |                                                 |        |
| <ul> <li>Downlink information for each radio link</li> </ul> |           |                                                 |        |
| - CHOICE mode                                                |           | TDD                                             |        |
| - Primary CCPCH info                                         |           |                                                 |        |
| - CHOICE TDD option                                          |           | 1.28 Mcps                                       |        |
| - TSTD indicator                                             |           | TRUE                                            |        |
| - Cell parameters ID                                         |           | 0                                               |        |
|                                                              |           | 1 ~                                             |        |
| - Block STTD indicator                                       |           | FALSE                                           |        |
| <ul> <li>Downlink DPCH info for each RL</li> </ul>           |           |                                                 |        |
| - CHOICE mode                                                |           | TDD                                             |        |
| - DL CCTrCH List                                             |           |                                                 |        |
| - TFCS ID                                                    |           | 1                                               |        |
| - Time info                                                  |           | '                                               |        |
|                                                              |           | (256, CEN (CEN mod 8 : 0)) === d 250            |        |
| - Activation time                                            |           | (256+CFN-(CFN mod 8 + 8))mod 256                |        |
| - Duration                                                   |           | Infinite                                        |        |
| - Common timeslot info                                       |           |                                                 |        |

| Information Element                                     | Condition | Value/remark                                   | Versio |
|---------------------------------------------------------|-----------|------------------------------------------------|--------|
| - 2nd interleaving mode                                 |           | Reference to TS34.108                          |        |
| - TFCI coding                                           |           | TRUE                                           |        |
| - Puncturing limit                                      |           | Reference to TS34.108 clause 6 Parameter       |        |
|                                                         |           | set                                            |        |
| - Repetition period                                     |           | 1                                              |        |
| - Repetition length                                     |           | Empty                                          |        |
| <ul> <li>Downlink DPCH timeslots and codes</li> </ul>   |           |                                                |        |
| <ul> <li>Individual timeslot info</li> </ul>            |           |                                                |        |
| - Timeslot number                                       |           | The number of a downlink timeslot that has     |        |
|                                                         |           | unassigned codes.                              |        |
| - TFCI existence                                        |           | TRUE                                           |        |
| <ul> <li>Midamble shift and burst type</li> </ul>       |           |                                                |        |
| - CHOICE TDD option                                     |           | 1.28 Mcps                                      |        |
| -Midamble Allocation Mode                               |           | Default                                        |        |
| <ul> <li>Midamble configuration</li> </ul>              |           | 16                                             |        |
| - Modulation                                            |           | QPSK                                           |        |
| - SS-TPC Symbols                                        |           | 1                                              |        |
| <ul> <li>First timeslot channelisation codes</li> </ul> |           |                                                |        |
| <ul> <li>First channelisation code</li> </ul>           |           | (i/SF) where i is the lowest numbered code     |        |
|                                                         |           | that is being assigned and SF is specified in  |        |
|                                                         |           | TS34.108 clause 6 Parameter Set                |        |
| <ul> <li>Last channelisation code</li> </ul>            |           | (j/SF) where j is the highest numbered code    |        |
|                                                         |           | that is being assigned in the slot.            |        |
| - Bitmap                                                |           | Bitmap of the codes that are being assigned in |        |
|                                                         |           | the slot.                                      |        |
| <ul> <li>CHOICE more timeslots</li> </ul>               |           | The presence of this IE depends upon whether   |        |
|                                                         |           | the requirements of TS34.108 clause 6          |        |
|                                                         |           | Parameter Set could be met by the codes that   |        |
|                                                         |           | have been assigned in the first timeslot       |        |
| - UL CCTrCH TPC List                                    |           | Not Present                                    |        |
| -SCCPCH information for FACH                            |           | Not Present                                    |        |

| Condition                                                                                              | Explanation                                                                             |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A1                                                                                                     | This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is |
|                                                                                                        | selected.                                                                               |
| A3                                                                                                     | This IE is needed for acknowledged mode.                                                |
| NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the |                                                                                         |
| combination                                                                                            | of UL and DL channels or test requirements.                                             |

### Contents of RRC CONNECTION RELEASE message: UM

| Information Element                           | Value/remark                                                                             | Version    |
|-----------------------------------------------|------------------------------------------------------------------------------------------|------------|
| Message Type                                  |                                                                                          |            |
| U-RNTI                                        | This IE is set to the following value when the message is transmitted on the DCCCH. When | R99, REL-4 |
|                                               | transmitted on CDCCH, this is absent.                                                    |            |
| - SRNC identity                               | 0000 0000 0001B                                                                          |            |
| - S-RNTI                                      | 0000 0000 0000 0000 0001B                                                                |            |
| CHOICE identity type                          | This IE is set to the following value when the                                           | REL-5      |
| Crisis   Marinistry type                      | message is transmitted on the CCCH. When                                                 | 0          |
|                                               | transmitted on DCCH, this is absent.                                                     |            |
| - U-RNTI                                      | ,                                                                                        |            |
| - SRNC identity                               | 0000 0000 0001B                                                                          |            |
| - S-RNTI                                      | 0000 0000 0000 0000 0001B                                                                |            |
| - Group identity                              | [FFS]                                                                                    |            |
| <ul> <li>Group release information</li> </ul> | [FFS]                                                                                    |            |
| RRC transaction identifier                    | Arbitrarily selects an integer between 0 and 3                                           |            |
| Integrity check info                          | This IE is present when this message is transmitted                                      |            |
|                                               | on downlink DCCH. Else, this IE and the sub-IEs are                                      |            |
|                                               | omitted.                                                                                 |            |
| - Message authentication code                 | SS calculates the value of MAC-I for this message                                        |            |
|                                               | and writes to this IE. The first/ leftmost bit of the bit                                |            |
| DDC Massage saguenas number                   | string contains the most significant bit of the MAC-I.                                   |            |
| - RRC Message sequence number                 | SS provides the value of this IE, from its internal                                      |            |
| N308                                          | counter.                                                                                 |            |
| INSUO                                         | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).             |            |
| Release cause                                 | Normal event                                                                             |            |
| Rplmn information                             | Not Present                                                                              |            |
| Tymin mornauon                                | NOT LESCHE                                                                               |            |

Contents of RRC CONNECTION SETUP message: UM (3.84 Mcps TDD)

| Information Element                                                                       | Value/remark                                                                                            | Version |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|
| Message Type                                                                              |                                                                                                         |         |
| Initial UE identity                                                                       | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         |
| RRC transaction identifier                                                                | Arbitrarily selects an integer between 0 and 3                                                          |         |
| Activation time                                                                           | Not Present(Now)                                                                                        |         |
| New U-RNTI                                                                                |                                                                                                         |         |
| - SRNC identity                                                                           | 0000 0000 0001B                                                                                         |         |
| - S-RNTI                                                                                  | 0000 0000 0000 0000 0001B                                                                               |         |
| New C-RNTI                                                                                | Not Present                                                                                             |         |
| RRC State Indicator                                                                       | CELL_DCH                                                                                                |         |
| UTRAN DRX cycle length coefficient                                                        | 9                                                                                                       |         |
| Capability update requirement                                                             |                                                                                                         |         |
| <ul> <li>UE radio access FDD capability update</li> </ul>                                 | FALSE                                                                                                   |         |
| requirement                                                                               |                                                                                                         |         |
| <ul> <li>UE radio access TDD capability update</li> </ul>                                 | TRUE                                                                                                    |         |
| requirement                                                                               |                                                                                                         |         |
| <ul> <li>System specific capability update</li> </ul>                                     | GSM                                                                                                     |         |
| requirement list                                                                          |                                                                                                         |         |
| CHOICE specification mode                                                                 | Complete specification                                                                                  | REL-5   |
| - Complete specification                                                                  |                                                                                                         | REL-5   |
| - Signalling RB information to setup list                                                 | 4 SRBs                                                                                                  |         |
| - Signalling RB information to setup                                                      | (UM DCCH for RRC)                                                                                       |         |
| - RB identity                                                                             | Not Present                                                                                             |         |
| - CHOICE RLC info type                                                                    | RLC info                                                                                                |         |
| - CHOICE Uplink RLC mode                                                                  | UM RLC                                                                                                  |         |
| - Transmission RLC discard                                                                | Not Present                                                                                             |         |
| - CHOICE Downlink RLC mode                                                                | UM RLC                                                                                                  |         |
| - RB mapping info                                                                         | 2 PRM:::Ontions                                                                                         |         |
| - Information for each multiplexing option                                                | 2 RBMuxOptions  Not Present                                                                             |         |
| - RLC logical channel mapping indicator                                                   | 1                                                                                                       |         |
| <ul> <li>Number of RLC logical channels</li> <li>Uplink transport channel type</li> </ul> | DCH                                                                                                     |         |
| - UL Transport channel identity                                                           | 5                                                                                                       |         |
| - Logical channel identity                                                                | 1                                                                                                       |         |
| - CHOICE RLC size list                                                                    | Configured                                                                                              |         |
| - MAC logical channel priority                                                            | 1                                                                                                       |         |
| - Downlink RLC logical channel info                                                       | '                                                                                                       |         |
| - Number of RLC logical channels                                                          | 1                                                                                                       |         |
| - Downlink transport channel type                                                         | DCH                                                                                                     |         |
| - DL DCH Transport channel identity                                                       | 10                                                                                                      |         |
| - DL DSCH Transport channel identity                                                      | Not Present                                                                                             |         |
| - Logical channel identity                                                                | 1                                                                                                       |         |
| - RLC logical channel mapping indicator                                                   | Not Present                                                                                             |         |
| - Number of RLC logical channels                                                          | 1                                                                                                       |         |
| - Uplink transport channel type                                                           | RACH                                                                                                    |         |
| - UL Transport channel identity                                                           | Not Present                                                                                             |         |
| - Logical channel identity                                                                | 1                                                                                                       |         |
| - CHOICE RLC size list                                                                    | Configured                                                                                              |         |
| - RLC size index                                                                          | Reference to TS34.108 clause 6 Parameter Set                                                            |         |
| - MAC logical channel priority                                                            | 1                                                                                                       |         |
| - Downlink RLC logical channel info                                                       |                                                                                                         |         |
| - Number of RLC logical channels                                                          | 1                                                                                                       |         |
| - Downlink transport channel type                                                         | FACH                                                                                                    |         |
| <ul> <li>DL DCH Transport channel identity</li> </ul>                                     | Not Present                                                                                             |         |

| Information Element                              | Value/remark                             | Version |
|--------------------------------------------------|------------------------------------------|---------|
| - DL DSCH Transport channel identity             | Not Present                              |         |
| - Logical channel identity                       | 1                                        |         |
| - Signalling RB information to setup             | (AM DCCH for RRC)                        |         |
| - RB identity                                    | Not Present                              |         |
| - CHOICE RLC info type                           |                                          |         |
| - RLC info                                       |                                          |         |
| - CHOICE Uplink RLC mode                         | AM RLC                                   |         |
| - Transmission RLC discard                       |                                          |         |
| - SDU discard mode                               | No Discard                               |         |
| - MAX_DAT                                        | 415                                      |         |
| - Transmission window size                       | 128                                      |         |
| - Timer_RST                                      | 500                                      |         |
| - Max_RST                                        | 4                                        |         |
| - Polling info                                   |                                          |         |
| <ul><li>Timer_poll_prohibit</li></ul>            | 200                                      |         |
| - Timer_poll                                     | 200                                      |         |
| - Poll_PDU                                       | Not Present                              |         |
| - Poll_SDU                                       | 1                                        |         |
| <ul> <li>Last transmission PDU poll</li> </ul>   | TRUE                                     |         |
| <ul> <li>Last retransmission PDU poll</li> </ul> | TRUE                                     |         |
| - Poll_Windows                                   | 99                                       |         |
| <ul><li>Timer_poll_periodic</li></ul>            | Not Present                              |         |
| - CHOICE Downlink RLC mode                       | AM RLC                                   |         |
| - In-sequence delivery                           | TRUE                                     |         |
| - Receiving window size                          | 128                                      |         |
| - Downlink RLC status info                       |                                          |         |
| <ul> <li>Timer_status_prohibit</li> </ul>        | 200                                      |         |
| - Timer_EPC                                      | Not Present                              |         |
| - Missing PDU indicator                          | TRUE                                     |         |
| - Timer_STATUS_periodic                          | Not Present                              |         |
| - RB mapping info                                |                                          |         |
| - Information for each multiplexing option       | 2 RBMuxOptions                           |         |
| - RLC logical channel mapping indicator          | Not Present                              |         |
| - Number of RLC logical channels                 | 1                                        |         |
| - Uplink transport channel type                  | DCH                                      |         |
| - UL Transport channel identity                  | 5                                        |         |
| - Logical channel identity                       | 2                                        |         |
| - CHOICE RLC size list                           | Configured                               |         |
| - MAC logical channel priority                   | 2                                        |         |
| - Downlink RLC logical channel info              |                                          |         |
| - Number of RLC logical channels                 | 1                                        |         |
| - Downlink transport channel type                | DCH                                      |         |
| - DL DCH Transport channel identity              | 10                                       |         |
| - DL DSCH Transport channel identity             | Not Present                              |         |
| - Logical channel identity                       | 2                                        |         |
| - RLC logical channel mapping indicator          | Not Present                              |         |
| - Number of RLC logical channels                 | 1                                        |         |
| - Uplink transport channel type                  | RACH                                     |         |
| - UL Transport channel identity                  | Not Present                              |         |
| - Logical channel identity                       | 2                                        |         |
| - CHOICE RLC size list                           | Explicit List                            |         |
| - RLC size index                                 | Reference to TS34.108 clause 6 Parameter |         |
| MAC logical sharps I pristite                    | Set                                      |         |
| - MAC logical channel priority                   | 2                                        |         |
| - Downlink RLC logical channel info              | 1                                        |         |
| - Number of RLC logical channels                 | 1                                        |         |
| - Downlink transport channel type                | FACH<br>Not Propert                      |         |
| - DL DCH Transport channel identity              | Not Present                              | ı l     |

| Information Element                               | Value/remark                             | Version    |
|---------------------------------------------------|------------------------------------------|------------|
| - DL DSCH Transport channel identity              | Not Present                              | V GI SIUII |
| - Logical channel identity                        | 2                                        |            |
| - Signalling RB information to setup              | (AM DCCH for NAS_DT High priority)       |            |
| - RB identity                                     | Not Present                              |            |
| - CHOICE RLC info type                            |                                          |            |
| - RLC info                                        |                                          |            |
| - CHOICE Uplink RLC mode                          | AM RLC                                   |            |
| - Transmission RLC discard                        |                                          |            |
| - SDU discard mode                                | No Discard                               |            |
| - MAX_DAT                                         | 415                                      |            |
| - Transmission window size                        | 128                                      |            |
| - Timer_RST                                       | 500                                      |            |
| - Max_RST                                         | 4                                        |            |
| - Polling info                                    |                                          |            |
| - Timer_poll_prohibit                             | 200                                      |            |
| - Timer_poll                                      | 200                                      |            |
| - Poll_PDU                                        | Not Present                              |            |
| - Poll_SDU                                        | 1                                        |            |
| - Last transmission PDU poll                      | TRUE                                     |            |
| - Last retransmission PDU poll                    | TRUE                                     |            |
| - Poll_Windows                                    | 99                                       |            |
| - Timer_poll_periodic                             | Not Present                              |            |
| - CHOICE Downlink RLC mode                        | AM RLC                                   |            |
| - In-sequence delivery                            | TRUE                                     |            |
| - Receiving window size                           | 128                                      |            |
| - Downlink RLC status info                        |                                          |            |
| - Timer_status_prohibit                           | 200                                      |            |
| - Timer_EPC                                       | Not Present                              |            |
| - Missing PDU indicator                           | TRUE                                     |            |
| - Timer_STATUS_periodic                           | Not Present                              |            |
| - RB mapping info                                 |                                          |            |
| - Information for each multiplexing option        | 2 RBMuxOptions                           |            |
| - RLC logical channel mapping indicator           | Not Present                              |            |
| - Number of RLC logical channels                  | 1                                        |            |
| - Uplink transport channel type                   | DCH                                      |            |
| -UL Transport channel identity                    | 5                                        |            |
| - Logical channel identity                        | 3                                        |            |
| - CHOICE RLC size list                            | Configured                               |            |
| - MAC logical channel priority                    | 3                                        |            |
| - Downlink RLC logical channel info               |                                          |            |
| - Number of RLC logical channels                  | 1                                        |            |
| - Downlink transport channel type                 | DCH                                      |            |
| - DL DCH Transport channel identity               | 10                                       |            |
| - DL DSCH Transport channel identity              | Not Present                              |            |
| - Logical channel identity                        | 3                                        |            |
| - RLC logical channel mapping indicator           | Not Present                              |            |
| - Number of RLC logical channels                  | 1                                        |            |
| - Uplink transport channel type                   | RACH                                     |            |
| <ul> <li>UL Transport channel identity</li> </ul> | Not Present                              |            |
| <ul> <li>Logical channel identity</li> </ul>      | 3                                        |            |
| - CHOICE RLC size list                            | Explicit List                            |            |
| - RLC size index                                  | Reference to TS34.108 clause 6 Parameter |            |
| - MAC logical channel priority                    | Set 3                                    |            |
| - Downlink RLC logical channel info               |                                          | ]          |
| - Number of RLC logical channels                  | 1                                        |            |
| - Downlink transport channel type                 | FACH                                     |            |
| - DL DCH Transport channel identity               | Not Present                              |            |
| -1 -1                                             | 1                                        |            |

| Information Element                        | Value/remark                             | Version    |
|--------------------------------------------|------------------------------------------|------------|
| - DL DSCH Transport channel identity       | Not Present                              | V GI SIUII |
| - Logical channel identity                 | 3                                        |            |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT Low priority)        |            |
| - RB identity                              | Not Present                              |            |
| - CHOICE RLC info type                     |                                          |            |
| - RLC info                                 |                                          |            |
| - CHOICE Uplink RLC mode                   | AM RLC                                   |            |
| - Transmission RLC discard                 |                                          |            |
| - SDU discard mode                         | No Discard                               |            |
| - MAX_DAT                                  | 15                                       |            |
| - Transmission window size                 | 128                                      |            |
| - Timer_RST                                | 500                                      |            |
| - Max_RST                                  | 4                                        |            |
| - Polling info                             |                                          |            |
| - Timer_poll_prohibit                      | 200                                      |            |
| - Timer_poll                               | 200                                      |            |
| - Poll_PDU                                 | Not Present                              |            |
| - Poll_SDU                                 | 1                                        |            |
| - Last transmission PDU poll               | TRUE                                     |            |
| - Last retransmission PDU poll             | TRUE                                     |            |
| - Poll_Windows                             | 99                                       |            |
| - Timer_poll_periodic                      | Not Present                              |            |
| - CHOICE Downlink RLC mode                 | AM RLC                                   |            |
| - In-sequence delivery                     | TRUE                                     |            |
| - Receiving window size                    | 128                                      |            |
| - Downlink RLC status info                 |                                          |            |
| - Timer_status_prohibit                    | 200                                      |            |
| - Timer_EPC                                | Not Present                              |            |
| - Missing PDU indicator                    | TRUE                                     |            |
| - Timer_STATUS_periodic                    | Not Present                              |            |
| - RB mapping info                          |                                          |            |
| - Information for each multiplexing option | 2 RBMuxOptions                           |            |
| - RLC logical channel mapping indicator    | Not Present                              |            |
| - Number of RLC logical channels           | 1                                        |            |
| - Uplink transport channel type            | DCH                                      |            |
| - UL Transport channel identity            | 5                                        |            |
| - Logical channel identity                 | 4                                        |            |
| - CHOICE RLC size list                     | Configured                               |            |
| - MAC logical channel priority             | 4                                        |            |
| - Downlink RLC logical channel info        |                                          |            |
| - Number of RLC logical channels           | 1                                        |            |
| - Downlink transport channel type          | DCH                                      |            |
| - DL DCH Transport channel identity        | 10                                       |            |
| - DL DSCH Transport channel identity       | Not Present                              |            |
| - Logical channel identity                 | 4                                        |            |
| - RLC logical channel mapping indicator    | Not Present                              |            |
| - Number of RLC logical channels           | 1                                        |            |
| - Uplink transport channel type            | RACH                                     |            |
| - UL Transport channel identity            | Not Present                              |            |
| - Logical channel identity                 | 4                                        |            |
| - CHOICE RLC size list                     | Explicit List                            |            |
| - RLC size index                           | Reference to TS34.108 clause 6 Parameter |            |
|                                            | Set                                      |            |
| - MAC logical channel priority             | 4                                        |            |
| - Downlink RLC logical channel info        |                                          |            |
| - Number of RLC logical channels           | 1                                        |            |
| - Downlink transport channel type          | FACH                                     |            |
| - DL DCH Transport channel identity        | Not Present                              |            |
| ·                                          | •                                        | . !        |

| Information Element                                      | Value/remark                                 | Version |
|----------------------------------------------------------|----------------------------------------------|---------|
| <ul> <li>DL DSCH Transport channel identity</li> </ul>   | Not Present                                  |         |
| <ul> <li>Logical channel identity</li> </ul>             | 4                                            |         |
| UL Transport channel information for all transport       |                                              |         |
| channels                                                 |                                              |         |
| - PRACH TFCS                                             | Not Present                                  |         |
| - CHOICE Mode                                            | TDD                                          |         |
| -Individual UL CCTrCH information                        |                                              |         |
| - UL TFCS ID                                             | (This IE is repeated for TFC number.)        |         |
| - UL TFCS                                                |                                              |         |
| - TFC subset                                             | Default value is the complete existing set   |         |
|                                                          | of transport format combinations             |         |
| <ul> <li>Allowed Transport Format combination</li> </ul> | 0 to MaxTFCvalue-1 (MaxTFCValue is refer     |         |
|                                                          | to                                           |         |
| DDAOU TECC                                               | TS34.108 clause 6 Parameter Set.)            |         |
| - PRACH TFCS - CHOICE TFCI signalling                    | (This IE is repeated for TFC number.) Normal |         |
| - TFCI Field 1 information                               | Nomai                                        |         |
| - TFCS complete reconfigure                              |                                              |         |
| information                                              |                                              |         |
| - CHOICE TFCS Size                                       | Number of used bits must be enough to cover  |         |
|                                                          | all combinations of CTFC from clauses 6.     |         |
|                                                          | Refer to TS34.108 clause 6 Parameter Set     |         |
| - CTFC information                                       | Not Present                                  |         |
| - CHOICE mode<br>- Individual UL CCTrCH information      | TDD<br>Not Present                           |         |
| Deleted TrCH information list                            | Not Present                                  |         |
| Added or Reconfigured UL TrCH information list           | 1                                            |         |
| - Added or Reconfigured UL TrCH information              |                                              |         |
| _                                                        | DCH                                          |         |
| - Uplink transport channel type                          |                                              |         |
| - UL Transport channel identity - TFS                    | 5                                            |         |
|                                                          | De diseased transport about als              |         |
| - CHOICE Transport channel type                          | Dedicated transport channels                 |         |
| - Dynamic Transport Format Information                   | A TOO 4 400                                  |         |
| - RLC size                                               | According to TS34.108 clause 6               |         |
| - Number of TBs and TTI List                             | (This IE is repeated for TFI number)         |         |
| - CHOICE mode                                            | TDD                                          |         |
| - Transmission Time Interval                             | According to TS34.108 clause 6               |         |
| - CHOICE Logical channel list                            | All                                          |         |
| - Semi-static Transport Format information               |                                              |         |
| DL Transport channel information common for all          |                                              |         |
| transport channel                                        |                                              |         |
| - SCCPCH TFCS                                            | Not Present                                  |         |
| - CHOICE mode                                            | TDD                                          |         |
| - CHOICE DL parameters                                   | Same as UL                                   |         |
| Added or Reconfigured DL TrCH information list           | 1                                            |         |
| - Added or Reconfigured DL TrCH information              |                                              |         |
| - Downlink transport channel type                        | DCH                                          |         |
| - DL Transport channel identity                          | 10                                           |         |
| - CHOICE DL parameters                                   | Same as UL                                   |         |
| - Uplink transport channel type                          | DCH                                          |         |
| - UL TrCH Identity                                       | 5                                            |         |
| - DCH quality target                                     |                                              |         |
| - BLER Quality value                                     | Reference to TS 34.108                       |         |
| Frequency info                                           | Not Present                                  |         |
| Maximum allowed UL TX power                              | Not Present                                  |         |
| CHOICE channel requirement                               | Uplink DPCH info                             |         |
| - Uplink DPCH power control info                         |                                              |         |
| - CHOICE mode                                            | TDD                                          |         |
|                                                          |                                              |         |
| - CHOICE TDD option                                      | 3.84 Mcps                                    |         |

| Information Element                             | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| - CHOICE mode                                   | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE UL OL PC info                          | Individually signalled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - CHOICE TDD option                             | 3.84 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - Individual timeslot interference info         | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Individual timeslot interference              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - DPCH Constant Value                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Primary CCPCH Tx Power                        | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Time info                                     | THE TREE THE STATE OF THE STATE |         |
| - Activation time                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - Duration                                      | Infinite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Common timeslot info                          | minic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| - 2 <sub>nd</sub> interleaving mode             | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - TFCI coding                                   | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Puncturing Limit                              | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Repetition Period                             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Nepellion Fellou                              | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - Repetition Length                             | Reference to TS34.108 clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Repetition Length                             | Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - Uplink DPCH timeslots and codes               | Default is to use the old timeslots and codes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - CPCH SET Info                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| Downlink information common for all radio links | (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - Downlink DPCH info common for all RL          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
|                                                 | Initialise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - Timing Indication                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CFN-targetSFN frame offset                    | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Downlink DPCH power control information       | 0 (-in al-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - DPC mode                                      | 0 (single)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CHOICE mode                                   | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE TDD option - Default DPCH Offset Value | 3.84 Mcps (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Delauit DFCH Offset Value                     | Arbitrary set to value 0306688 by step of 512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| Downlink information for per radio links list   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| -Downlink information for each radio links      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE mode                                   | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Primary CCPCH info                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE SyncCase                               | Sync Case 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Timeslot                                      | PCCPCH timeslot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Cell parameters ID                            | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - SCTD indicator                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Downlink DPCH info for each RL                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE mode                                   | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - DL CCTrCH List                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - TFCS ID                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Time info                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Activation time                               | (256+CFN-(CFN mod 8 + 8))mod 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - Duration                                      | infinite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Common timeslot info                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - 2 <sub>nd</sub> interleaving mode             | Reference to TS34.108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| - TFCI coding                                   | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Puncturing limit                              | Reference to TS34.108 clause 6 Parameter set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |
| - Repetition period                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Repetition length                             | Empty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| - Downlink DPCH timeslots and codes             | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - CHOICE more timeslots                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE TDD option                             | 3.84 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |

| Information Element                               | Value/remark                                  | Version |
|---------------------------------------------------|-----------------------------------------------|---------|
| - Timeslot number                                 | The number of a downlink timeslot that has    |         |
|                                                   | unassigned codes in a frame.                  |         |
| <ul> <li>Individual timeslot info</li> </ul>      |                                               |         |
| - TFCI existence                                  | TRUE                                          |         |
| <ul> <li>Midamble shift and burst type</li> </ul> |                                               |         |
| - CHOICE TDD option                               | 3.84 Mcps                                     |         |
| -CHOICE Burst Type                                |                                               |         |
| -Type 1                                           |                                               |         |
| -Midamble Allocation Mode                         | Default                                       |         |
| - Midamble configuration                          | As defined in 3GPP TS 25.221                  |         |
| burst type 1 and 3                                |                                               |         |
| - First timeslot channelisation codes             |                                               |         |
| - First channelisation code                       | (i/SF) where i is the lowest numbered code    |         |
|                                                   | that is being assigned and SF is specified in |         |
|                                                   | TS34.108 clause 6 Parameter Set               |         |
| - Last channelisation code                        | (j/SF) where j is the highest numbered code   |         |
|                                                   | that is being assigned in the slot.           |         |
| - CHOICE more timeslots                           | The presence of this IE depends upon          |         |
|                                                   | whether                                       |         |
|                                                   | the requirements of TS34.108 clause 6         |         |
|                                                   | Parameter Set could be met by the codes       |         |
|                                                   | that                                          |         |
|                                                   | have been assigned in the first timeslot      |         |
| - UL CCTrCH TPC List                              | Not Present                                   |         |
| <ul> <li>SCCPCH information for FACH</li> </ul>   | Not Present                                   |         |

Contents of RRC CONNECTION SETUP message: UM (1.28 Mcps TDD)

| Information Element                                          | Value/remark                                      | Version |
|--------------------------------------------------------------|---------------------------------------------------|---------|
| Message Type                                                 |                                                   |         |
| Initial UE identity                                          | Select the same identity as in the IE "Initial UE |         |
|                                                              | Identity" in received RRC CONNECTION              |         |
|                                                              | REQUEST" message                                  |         |
| RRC transaction identifier                                   | Arbitrarily selects an integer between 0 and 3    |         |
| Activation time                                              | Not Present(Now)                                  |         |
| New U-RNTI                                                   | , ,                                               |         |
| - SRNC identity                                              | 0000 0000 0001B                                   |         |
| - S-RNTI                                                     | 0000 0000 0000 0000 0001B                         |         |
| New C-RNTI                                                   | Not Present                                       |         |
| RRC State Indicator                                          | CELL_DCH                                          |         |
| UTRAN DRX cycle length coefficient                           | 9                                                 |         |
| Capability update requirement                                |                                                   |         |
| - UE radio access FDD capability update                      | FALSE                                             |         |
| requirement                                                  | I ALOL                                            |         |
| - UE radio access TDD capability update                      | TRUE                                              |         |
|                                                              | INVE                                              |         |
| requirement                                                  | CCM                                               |         |
| - System specific capability update                          | GSM                                               |         |
| requirement list                                             | Complete on edification                           | DEL 6   |
| CHOICE specification mode                                    | Complete specification                            | REL-5   |
| - Complete specification                                     | 4.000                                             | REL-5   |
| - Signalling RB information to setup list                    | 4 SRBs                                            |         |
| - Signalling RB information to setup                         | (UM DCCH for RRC)                                 |         |
| - RB identity                                                | Not Present                                       |         |
| - CHOICE RLC info type                                       | RLC info                                          |         |
| - CHOICE Uplink RLC mode                                     | UM RLC                                            |         |
| - Transmission RLC discard                                   | Not Present                                       |         |
| - CHOICE Downlink RLC mode                                   | UM RLC                                            |         |
| - RB mapping info                                            |                                                   |         |
| <ul> <li>Information for each multiplexing option</li> </ul> | 2 RBMuxOptions                                    |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                       |         |
| <ul> <li>Number of RLC logical channels</li> </ul>           | 1                                                 |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | DCH                                               |         |
| <ul> <li>UL Transport channel identity</li> </ul>            | 5                                                 |         |
| - Logical channel identity                                   | 1                                                 |         |
| - CHOICE RLC size list                                       | Configured                                        |         |
| - MAC logical channel priority                               | 1                                                 |         |
| - Downlink RLC logical channel info                          |                                                   |         |
| - Number of RLC logical channels                             | 1                                                 |         |
| - Downlink transport channel type                            | DCH                                               |         |
| - DL DCH Transport channel identity                          | 10                                                |         |
| - DL DSCH Transport channel identity                         | Not Present                                       |         |
| - Logical channel identity                                   | 1                                                 |         |
| - RLC logical channel mapping indicator                      | Not Present                                       |         |
| - Number of RLC logical channels                             | 1                                                 |         |
| - Uplink transport channel type                              | RACH                                              |         |
| - UL Transport channel identity                              | Not Present                                       |         |
| - Logical channel identity                                   | 1                                                 |         |
| - CHOICE RLC size list                                       | Configured                                        |         |
| - RLC size index                                             | Reference to TS34.108 clause 6 Parameter          |         |
| - IVEO 2176 ILINGY                                           |                                                   |         |
| MAC logical shappal ariable                                  | Set                                               |         |
| - MAC logical channel priority                               | 1                                                 |         |
| - Downlink RLC logical channel info                          |                                                   |         |
| - Number of RLC logical channels                             | 1                                                 |         |
| <ul> <li>Downlink transport channel type</li> </ul>          | FACH                                              |         |
| <ul> <li>DL DCH Transport channel identity</li> </ul>        | Not Present                                       |         |

| Information Element                        | Value/remark                             | Version   |
|--------------------------------------------|------------------------------------------|-----------|
| - DL DSCH Transport channel identity       | Not Present                              | 3 3.3.311 |
| - Logical channel identity                 | 1                                        |           |
| - Signalling RB information to setup       | (AM DCCH for RRC)                        |           |
| - RB identity                              | Not Present                              |           |
| - CHOICE RLC info type                     |                                          |           |
| - RLC info                                 |                                          |           |
| - CHOICE Uplink RLC mode                   | AM RLC                                   |           |
| - Transmission RLC discard                 |                                          |           |
| - SDU discard mode                         | No Discard                               |           |
| - MAX_DAT                                  | 415                                      |           |
| - Transmission window size                 | 128                                      |           |
| - Timer_RST                                | 500                                      |           |
| - Max_RST                                  | 4                                        |           |
| - Polling info                             |                                          |           |
| - Timer_poll_prohibit                      | 200                                      |           |
| - Timer_poll                               | 200                                      |           |
| - Poll_PDU                                 | Not Present                              |           |
| - Poll_SDU                                 | 1                                        |           |
| - Last transmission PDU poll               | TRUE                                     |           |
| - Last retransmission PDU poll             | TRUE                                     |           |
| - Poll_Windows                             | 99                                       |           |
| - Timer_poll_periodic                      | Not Present                              |           |
| - CHOICE Downlink RLC mode                 | AM RLC                                   |           |
| - In-sequence delivery                     | TRUE                                     |           |
| - Receiving window size                    | 128                                      |           |
| - Downlink RLC status info                 |                                          |           |
| - Timer_status_prohibit                    | 200                                      |           |
| - Timer_EPC                                | Not Present                              |           |
| - Missing PDU indicator                    | TRUE                                     |           |
| - Timer_STATUS_periodic                    | Not Present                              |           |
| - RB mapping info                          |                                          |           |
| - Information for each multiplexing option | 2 RBMuxOptions                           |           |
| - RLC logical channel mapping indicator    | Not Present                              |           |
| - Number of RLC logical channels           | 1                                        |           |
| - Uplink transport channel type            | DCH                                      |           |
| - UL Transport channel identity            | 5                                        |           |
| - Logical channel identity                 | 2                                        |           |
| - CHOICE RLC size list                     | Configured                               |           |
| - MAC logical channel priority             | 2                                        |           |
| - Downlink RLC logical channel info        |                                          |           |
| - Number of RLC logical channels           | 1                                        |           |
| - Downlink transport channel type          | DCH                                      |           |
| - DL DCH Transport channel identity        | 10                                       |           |
| - DL DSCH Transport channel identity       | Not Present                              |           |
| - Logical channel identity                 | 2                                        |           |
| - RLC logical channel mapping indicator    | Not Present                              |           |
| - Number of RLC logical channels           | 1                                        |           |
| - Uplink transport channel type            | RACH                                     |           |
| - UL Transport channel identity            | Not Present                              |           |
| - Logical channel identity                 |                                          |           |
| - CHOICE RLC size list                     | Explicit List                            |           |
| - RLC size index                           | Reference to TS34.108 clause 6 Parameter |           |
|                                            | Set                                      |           |
| - MAC logical channel priority             | 2                                        |           |
| - Downlink RLC logical channel info        |                                          |           |
| - Number of RLC logical channels           | 1                                        |           |
| - Downlink transport channel type          | FACH                                     |           |
| - DL DCH Transport channel identity        | Not Present                              | [         |

| Information Element                                                        | Value/remark                                           | Version |
|----------------------------------------------------------------------------|--------------------------------------------------------|---------|
| - DL DSCH Transport channel identity                                       | Not Present                                            |         |
| - Logical channel identity                                                 | 2                                                      |         |
| - Signalling RB information to setup                                       | (AM DCCH for NAS_DT High priority)                     |         |
| - RB identity                                                              | Not Present                                            |         |
| - CHOICE RLC info type                                                     |                                                        |         |
| - RLC info                                                                 |                                                        |         |
| - CHOICE Uplink RLC mode                                                   | AM RLC                                                 |         |
| - Transmission RLC discard                                                 |                                                        |         |
| - SDU discard mode                                                         | No Discard                                             |         |
| - MAX_DAT                                                                  | 415                                                    |         |
| - Transmission window size                                                 | 128                                                    |         |
| - Timer_RST                                                                | 500                                                    |         |
| - Max_RST                                                                  | 4                                                      |         |
| - Polling info                                                             |                                                        |         |
| - Timer_poll_prohibit                                                      | 200                                                    |         |
| - Timer_poll                                                               | 200                                                    |         |
| - Poll_PDU                                                                 | Not Present                                            |         |
| - Poll_SDU                                                                 | 1                                                      |         |
| - Last transmission PDU poll                                               | TRUE                                                   |         |
| - Last retransmission PDU poll                                             | TRUE                                                   |         |
| - Poll_Windows                                                             | 99                                                     |         |
| - Timer_poll_periodic                                                      | Not Present                                            |         |
| - CHOICE Downlink RLC mode                                                 | AM RLC                                                 |         |
| - In-sequence delivery                                                     | TRUE                                                   |         |
| - Receiving window size                                                    | 128                                                    |         |
| - Downlink RLC status info                                                 |                                                        |         |
| - Timer_status_prohibit                                                    | 200                                                    |         |
| - Timer_EPC                                                                | Not Present                                            |         |
| - Missing PDU indicator                                                    | TRUE                                                   |         |
| - Timer_STATUS_periodic                                                    | Not Present                                            |         |
| - RB mapping info                                                          |                                                        |         |
| - Information for each multiplexing option                                 | 2 RBMuxOptions                                         |         |
| - RLC logical channel mapping indicator                                    | Not Present                                            |         |
| - Number of RLC logical channels                                           | 1                                                      |         |
| - Uplink transport channel type                                            | DCH                                                    |         |
| -UL Transport channel identity                                             | 5                                                      |         |
| - Logical channel identity                                                 | 3                                                      |         |
| - CHOICE RLC size list                                                     | Configured                                             |         |
| - MAC logical channel priority                                             | 3                                                      |         |
| - Downlink RLC logical channel info                                        |                                                        |         |
| - Number of RLC logical channels                                           | 1                                                      |         |
| - Downlink transport channel type                                          | DCH                                                    |         |
| - DL DCH Transport channel identity                                        | 10                                                     |         |
| - DL DSCH Transport channel identity                                       | Not Present                                            |         |
| - Logical channel identity                                                 | 3                                                      |         |
| - RLC logical channel mapping indicator                                    | Not Present                                            |         |
| - Number of RLC logical channels                                           | 1                                                      |         |
| - Uplink transport channel type                                            | RACH<br>Not Propert                                    |         |
| - UL Transport channel identity                                            | Not Present 3                                          |         |
| <ul> <li>Logical channel identity</li> <li>CHOICE RLC size list</li> </ul> |                                                        |         |
| - RLC size index                                                           | Explicit List Reference to TS34.108 clause 6 Parameter |         |
| - UFO 2156 ILIGEX                                                          |                                                        |         |
| - MAC logical channel priority                                             | Set 3                                                  |         |
| - MAC logical channel priority                                             | J                                                      |         |
| - Downlink RLC logical channel info                                        | 1                                                      |         |
| - Number of RLC logical channels                                           | 1<br>  FACH                                            |         |
| - Downlink transport channel type                                          |                                                        |         |
| - DL DCH Transport channel identity                                        | Not Present                                            | ]       |

| Information Element                                          | Value/remark                                    | Version |
|--------------------------------------------------------------|-------------------------------------------------|---------|
| - DL DSCH Transport channel identity                         | Not Present                                     |         |
| - Logical channel identity                                   | 3                                               |         |
| - Signalling RB information to setup                         | (AM DCCH for NAS_DT Low priority)               |         |
| - RB identity                                                | Not Present                                     |         |
| - CHOICE RLC info type                                       |                                                 |         |
| - RLC info                                                   |                                                 |         |
| - CHOICE Uplink RLC mode                                     | AM RLC                                          |         |
| - Transmission RLC discard                                   |                                                 |         |
| - SDU discard mode                                           | No Discard                                      |         |
| - MAX_DAT                                                    | 415                                             |         |
| - Transmission window size                                   | 128                                             |         |
| - Timer_RST                                                  | 500                                             |         |
| - Max_RST                                                    | 4                                               |         |
| - Polling info                                               |                                                 |         |
| - Timer_poll_prohibit                                        | 200                                             |         |
| - Timer_poll                                                 | 200                                             |         |
| - Poll_PDU                                                   | Not Present                                     |         |
| - Poll_SDU                                                   | 1                                               |         |
| - Last transmission PDU poll                                 | TRUE                                            |         |
| - Last retransmission PDU poll                               | TRUE                                            |         |
| - Poll_Windows                                               | 99                                              |         |
| - Timer_poll_periodic                                        | Not Present                                     |         |
| - CHOICE Downlink RLC mode                                   | AM RLC                                          |         |
| - In-sequence delivery                                       | TRUE                                            |         |
| - Receiving window size                                      | 128                                             |         |
| - Downlink RLC status info                                   |                                                 |         |
| - Timer_status_prohibit                                      | 200                                             |         |
| - Timer_EPC                                                  | Not Present                                     |         |
| - Missing PDU indicator                                      | TRUE                                            |         |
| - Timer_STATUS_periodic                                      | Not Present                                     |         |
| - RB mapping info                                            |                                                 |         |
| <ul> <li>Information for each multiplexing option</li> </ul> | 2 RBMuxOptions                                  |         |
| <ul> <li>RLC logical channel mapping indicator</li> </ul>    | Not Present                                     |         |
| <ul> <li>Number of RLC logical channels</li> </ul>           | 1                                               |         |
| <ul> <li>Uplink transport channel type</li> </ul>            | DCH                                             |         |
| <ul> <li>UL Transport channel identity</li> </ul>            | 5                                               |         |
| <ul> <li>Logical channel identity</li> </ul>                 | 4                                               |         |
| - CHOICE RLC size list                                       | Configured                                      |         |
| <ul> <li>MAC logical channel priority</li> </ul>             | 4                                               |         |
| - Downlink RLC logical channel info                          |                                                 |         |
| - Number of RLC logical channels                             | 1                                               |         |
| - Downlink transport channel type                            | DCH                                             |         |
| - DL DCH Transport channel identity                          | 10                                              |         |
| - DL DSCH Transport channel identity                         | Not Present                                     |         |
| - Logical channel identity                                   | 4                                               |         |
| - RLC logical channel mapping indicator                      | Not Present                                     |         |
| - Number of RLC logical channels                             | 1                                               |         |
| - Uplink transport channel type                              | RACH                                            |         |
| - UL Transport channel identity                              | Not Present                                     |         |
| - Logical channel identity                                   | 4                                               |         |
| - CHOICE RLC size list                                       | Explicit List                                   |         |
| - RLC size index                                             | Reference to TS34.108 clause 6 Parameter<br>Set |         |
| - MAC logical channel priority                               | 4                                               |         |
| - Downlink RLC logical channel info                          |                                                 |         |
| - Number of RLC logical channels                             | 1                                               |         |
| - Downlink transport channel type                            | FACH                                            |         |
| - DL DCH Transport channel identity                          | Not Present                                     |         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Value/remark                                                                | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------|
| - DL DSCH Transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not Present                                                                 |         |
| - Logical channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4                                                                           |         |
| UL Transport channel information for all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                             |         |
| transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                             |         |
| - PRACH TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not Present                                                                 |         |
| - CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TDD                                                                         |         |
| -Individual UL CCTrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                             |         |
| - UL TFCS ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (This IE is repeated for TFC number.)                                       |         |
| - UL TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                             |         |
| - TFC subset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Default value is the complete existing set of transport format combinations |         |
| <ul> <li>Allowed Transport Format</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to                                 |         |
| combination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TS34.108 clause 6 Parameter Set.)                                           |         |
| - PRACH TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (This IE is repeated for TFC number.)  Normal                               |         |
| <ul> <li>CHOICE TFCI signalling</li> <li>TFCI Field 1 information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Normal                                                                      |         |
| - TFCS complete reconfigure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |         |
| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |         |
| - CHOICE TFCS Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Number of used bits must be enough to cover                                 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | all combinations of CTFC from clauses 6.                                    |         |
| OTEO : .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Refer to TS34.108 clause 6 Parameter Set                                    |         |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Not Present                                                                 |         |
| <ul> <li>CHOICE mode</li> <li>Individual UL CCTrCH information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TDD<br>Not Present                                                          |         |
| Deleted TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not Present                                                                 |         |
| Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                                           |         |
| list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |         |
| - Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |         |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DCH                                                                         |         |
| - UL Transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                                                           |         |
| - TFS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ŭ                                                                           |         |
| - CHOICE Transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Dedicated transport channels                                                |         |
| - Dynamic Transport Format Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Dedicated transport charmers                                                |         |
| - RLC size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | According to TS34.108 clause 6                                              |         |
| - Number of TBs and TTI List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (This IE is repeated for TFI number)                                        |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TDD                                                                         |         |
| - Transmission Time Interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | According to TS34.108 clause 6                                              |         |
| - CHOICE Logical channel list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | All                                                                         |         |
| - Semi-static Transport Format information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , wi                                                                        |         |
| DL Transport channel information common for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |         |
| all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                             |         |
| - SCCPCH TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not Present                                                                 |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TDD                                                                         |         |
| - CHOICE Thoughtout - CHOICE DL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Same as UL                                                                  |         |
| Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                                           |         |
| list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>'</b>                                                                    |         |
| - Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |         |
| - Downlink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DCH                                                                         |         |
| - DL Transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10                                                                          |         |
| - CHOICE DL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Same as UL                                                                  |         |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DCH                                                                         |         |
| The state of the s |                                                                             |         |
| - UL TrCH Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5                                                                           |         |
| - DCH quality target                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Reference to TS 34.108                                                      |         |
| - BLER Quality value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |         |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Not Present                                                                 |         |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not Present                                                                 |         |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Uplink DPCH info                                                            |         |
| - Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                             |         |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TDD                                                                         |         |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.28 Mcps                                                                   | ]       |

| Information Element                                      | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Version |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| - PRX <sub>PDPCHdes</sub>                                | Reference to TS34.108 Parameter set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE mode                                            | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE UL OL PC info                                   | Individually signalled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| - CHOICE TDD option                                      | 1.28 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - TPC step size                                          | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Primary CCPCH Tx Power                                 | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - 1 filliary OOI OII 1X I OWEI                           | Not i resem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Primary CCPCH Tx Power                                 | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Time info                                              | Not Flesent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Activation time                                        | (256 CEN (CEN MOD 8 + 8)\MOD 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
|                                                          | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - Duration                                               | Infinite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Common timeslot info                                   | Deference to TS24 400 clause C Devember                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| - 2 <sub>nd</sub> interleaving mode                      | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| TEO! "                                                   | Set District Tools and District Control of Dis |         |
| - TFCI coding                                            | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|                                                          | Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Puncturing Limit                                       | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|                                                          | Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Repetition Period                                      | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|                                                          | Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Repetition Length                                      | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|                                                          | Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| <ul> <li>Uplink DPCH timeslots and codes</li> </ul>      | Default is to use the old timeslots and codes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| - CPCH SET Info                                          | (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| Downlink information common for all radio links          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| <ul> <li>Downlink DPCH info common for all RL</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Timing Indication                                      | Initialise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CFN-targetSFN frame offset                             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Downlink DPCH power control                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| information                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - DPC mode                                               | 0 (single)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - CHOICE mode                                            | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE TDD option                                      | 1.28 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| - TSTD indicator                                         | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Default DPCH Offset Value                              | Arbitrary set to value 0306688 by step of 512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| Downlink information for per radio links list            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| -Downlink information for each radio links               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE mode                                            | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Primary CCPCH info                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE SyncCase                                        | Sync Case 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - Timeslot                                               | PCCPCH timeslot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Cell parameters ID                                     | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - SCTD indicator                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - Downlink DPCH info for each RL                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - CHOICE mode                                            | TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - DL CCTrCH List                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - TFCS ID                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Time info                                              | <b>'</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Activation time                                        | (256+CFN-(CFN mod 8 + 8))mod 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| - Duration                                               | infinite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Common timeslot info                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| - 2nd interleaving mode                                  | Reference to TS34.108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| - TFCI coding                                            | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| - Puncturing limit                                       | Reference to TS34.108 clause 6 Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - Functuring min                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |
| Denotition poving                                        | set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Repetition period                                      | 1<br>Empty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| - Repetition length                                      | Empty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| - Downlink DPCH timeslots and                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |

| Information Element             | Value/remark                                                                  | Version |
|---------------------------------|-------------------------------------------------------------------------------|---------|
| codes                           |                                                                               |         |
| - CHOICE more timeslots         |                                                                               |         |
| - CHOICE TDD option             | 1.28 Mcps                                                                     |         |
| - Timeslot number               | The number of a downlink timeslot that has                                    |         |
|                                 | unassigned codes in a subframe.                                               |         |
| - Individual timeslot info      |                                                                               |         |
| - TFCI existence                | TRUE                                                                          |         |
| - Midamble shift and burst      |                                                                               |         |
| type                            |                                                                               |         |
| - CHOICE TDD option             | 1.28 Mcps                                                                     |         |
| -CHOICE Burst Type              |                                                                               |         |
| -Midamble Allocation            | Default                                                                       |         |
| Mode                            |                                                                               |         |
| - Midamble configuration        | As defined in 3GPP TS 25.221                                                  |         |
| - First timeslot channelisation |                                                                               |         |
| codes                           | (1/05)                                                                        |         |
| - First channelisation code     | (i/SF) where i is the lowest numbered code                                    |         |
|                                 | that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set |         |
| - Last channelisation code      | (j/SF) where j is the highest numbered code                                   |         |
| - Last Charmensation code       | that is being assigned in the slot.                                           |         |
| - CHOICE more timeslots         | The presence of this IE depends upon whether                                  |         |
| - Offolor more timesions        | the requirements of TS34.108 clause 6                                         |         |
|                                 | Parameter Set could be met by the codes that                                  |         |
|                                 | have been assigned in the first timeslot                                      |         |
|                                 | -                                                                             |         |
| - UL CCTrCH TPC List            | Not Present                                                                   | ·       |
| -SCCPCH information for FACH    | Not Present                                                                   |         |

### Contents of SECURITY MODE COMMAND message: AM

| Information Element                                                                    | Condition | Value/remark                                            |
|----------------------------------------------------------------------------------------|-----------|---------------------------------------------------------|
| Message Type                                                                           | A1, A2    |                                                         |
| RRC transaction identifier                                                             |           | Arbitrarily selects an integer between 0 and 3          |
| Integrity check info                                                                   |           |                                                         |
| - Message authentication code                                                          |           | Set to an arbitrarily selected 32-bits integer.         |
|                                                                                        |           | The first/ leftmost bit of the bit string contains      |
| DDO Marana Camarana Namakan                                                            |           | the most significant bit of the MAC-I.                  |
| - RRC Message Sequence Number                                                          |           | Set to an arbitrarily selected integer between          |
| Socurity conchility                                                                    |           | 0 and 15                                                |
| Security capability - Ciphering algorithm capability                                   |           |                                                         |
| - UEA0                                                                                 |           | If the UE has indicated support for ciphering           |
| 02/10                                                                                  |           | algorithm UEA0 in the IE "security capability"          |
|                                                                                        |           | in the RRC CONNECTION SETUP                             |
|                                                                                        |           | COMPLETE message, this IE is set to                     |
|                                                                                        |           | TRUE.                                                   |
| - UEA1                                                                                 |           | If the UE has indicated support for ciphering           |
|                                                                                        |           | algorithm UEA1 in the IE "security capability"          |
|                                                                                        |           | in the RRC CONNECTION SETUP                             |
|                                                                                        |           | COMPLETE message, this IE is set to                     |
|                                                                                        |           | TRUE.                                                   |
| - Spare                                                                                |           | Spare 2-15 = FALSE                                      |
| - Integrity protection algorithm capability - UIA1                                     |           | 0000000000000010B (UIA1)<br>TRUE                        |
| - OIAT<br>- Spare                                                                      |           | Spare 0 and Spare 2-15 = FALSE                          |
| Ciphering mode info                                                                    |           | This presence of this IE is dependent on IXIT           |
| Ophening mode into                                                                     |           | statements in TS 34.123-2. If ciphering is              |
|                                                                                        |           | indicated to be active, this IE present with            |
|                                                                                        |           | the values of the sub IEs as stated below.              |
|                                                                                        |           | Else, this IE is omitted.                               |
| - Ciphering mode command                                                               |           | Start/restart                                           |
| - Ciphering algorithm                                                                  |           | UEA0 or UEA1. The indicated algorithm                   |
|                                                                                        |           | must be one of the algorithms supported by              |
|                                                                                        |           | the UE as indicated in the IE "security                 |
|                                                                                        |           | capability" in the RRC CONNECTION                       |
|                                                                                        |           | SETUP COMPLETE message.Use the same                     |
| Cinharing activation time for DDCLI                                                    |           | ciphering algorithm specified in "ciphering Not Present |
| Ciphering activation time for DPCH     Radio bearer downlink ciphering activation time |           | Not Present                                             |
| info                                                                                   |           |                                                         |
| - Radio bearer activation time                                                         |           |                                                         |
| - RB identity                                                                          |           | 1                                                       |
| - RLC sequence number                                                                  |           | Current RLC SN+2                                        |
| - RB identity                                                                          |           | 2                                                       |
| - RLC sequence number                                                                  |           | Current RLC SN+2                                        |
| - RB identity                                                                          |           | 3                                                       |
| - RLC sequence number                                                                  |           | Current RLC SN + 2                                      |
| - RB identity                                                                          |           | 4                                                       |
| - RLC sequence number                                                                  |           | Current RLC SN + 2                                      |
| Integrity protection mode info - Integrity protection mode command                     |           | Start                                                   |
| Integrity protection mode command     Downlink integrity protection activation info    |           | Not Present                                             |
| - Integrity protection algorithm                                                       |           | UIA1                                                    |
| - Integrity protection initialisation number                                           |           | SS selects an arbitrary 32 bits number for              |
|                                                                                        |           | FRESH                                                   |
| CN domain identity                                                                     |           | CS or PS                                                |
| UE system specific security capability                                                 | A1        | Not Checked                                             |
| UE system specific security capability                                                 | A2        |                                                         |
| - Inter-RAT UE security capability                                                     |           |                                                         |
| - CHOICE system                                                                        |           | GSM                                                     |
| - GSM security capability                                                              |           | The indicated algorithms must be the same               |
|                                                                                        |           | as the algorithms supported by the UE as                |
|                                                                                        |           | indicated in the IE " UE system specific                |
|                                                                                        |           | capability " in the RRC CONNECTION                      |
|                                                                                        |           | SETUP COMPLETE message.                                 |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

## Annex A (informative): Void

Annex B (informative): Void

# Annex C (informative): Change history

| Meeti<br>ng-  | Doc-1st-Level | CR  | Rev | Subject                                                                               | Cat | Version-<br>Current | Version -New | Doc-2nd-<br>Level |
|---------------|---------------|-----|-----|---------------------------------------------------------------------------------------|-----|---------------------|--------------|-------------------|
| 1st-<br>Level |               |     |     |                                                                                       |     |                     |              |                   |
| TP-08         |               |     |     | Approval of the specification                                                         |     | 2.0.0               | 3.0.0        |                   |
|               | TP-000131     | 001 |     | RRC Message Contents: RLCSize                                                         | С   | 3.0.1               | 3.1.0        | T1-000190         |
|               | TP-000131     | 002 |     | RRC Message Contents: RLCParam                                                        | С   | 3.0.1               | 3.1.0        | T1-000191         |
|               | TP-000131     | 003 |     | RRC Message Contents: PCPreamble                                                      | С   | 3.0.1               | 3.1.0        | T1-000192         |
|               | TP-000131     | 004 |     | RRC Message Contents: RBIdentity                                                      | С   | 3.0.1               | 3.1.0        | T1-000193         |
|               | TP-000131     | 005 |     | RRC Message Contents: TrCHParam                                                       | С   | 3.0.1               | 3.1.0        | T1-000194         |
|               | TP-000131     | 006 |     | RRC Message Contents: UECapability                                                    | С   | 3.0.1               |              | T1-000195         |
| TP-09         | TP-000131     | 007 |     | RRC Message Contents: RBMapping                                                       | С   | 3.0.1               | 3.1.0        | T1-000196         |
|               | TP-000131     | 008 |     | RRC Message Contents: PagingCause                                                     | С   | 3.0.1               | 3.1.0        | T1-000197         |
|               | TP-000131     | 009 |     | RRC Message Contents: CipheringAndIntegrity                                           | С   | 3.0.1               |              | T1-000198         |
|               | TP-000131     | 010 |     | RRC Message Contents: RLCInfo                                                         | С   | 3.0.1               | 3.1.0        | T1-000199         |
|               | TP-000131     | 011 |     | RRC Message Contents: CompressedMode                                                  | С   | 3.0.1               |              | T1-000200         |
|               | TP-000131     | 012 |     | RRC Message Contents: SIB                                                             | С   | 3.0.1               |              | T1-000201         |
|               | TP-000131     | 013 |     | RRC Message Contents: PhyCH                                                           | D   | 3.0.1               | 3.1.0        | T1-000202         |
|               | TP-000131     | 014 |     | RRC Message Contents: Measurement                                                     | С   | 3.0.1               | 3.1.0        | T1-000203         |
|               | TP-000131     | 015 |     | RRC Message Contents: TFCS                                                            | С   | 3.0.1               | 3.1.0        | T1-000204         |
|               | TP-000131     | 016 |     | RRC Message Contents: DPCHFrameOffset                                                 | С   | 3.0.1               | 3.1.0        | T1-000205         |
|               | TP-000131     | 017 |     | Test USIM Parameters                                                                  | F   | 3.0.1               | 3.1.0        | T1-000215         |
|               | TP-000131     | 018 |     | Correction to definition of the test algorithm for authentication (clause 8.1.2)      | F   | 3.0.1               | 3.1.0        | T1-000164         |
| TP-09         | TP-000131     | 019 |     | Reference Radio Bearer Configurations                                                 | F   | 3.0.1               | 3.1.0        | T1-000212         |
|               | TP-000131     | 020 |     | <u> </u>                                                                              | F   | 3.0.1               | 3.1.0        | T1-000212         |
|               | TP-000131     | 020 |     | TDD Single mode                                                                       |     |                     |              | T1-000220         |
|               |               |     |     | Common generic procedure for AS testing                                               | В   | 3.1.0               | 3.2.0        |                   |
|               | TP-000215     | 022 |     | Requirements for the system simulator for support of Tcell parameter                  | F   | 3.1.0               | 3.2.0        | T1-000303         |
|               | TP-000215     | 023 |     | Minimum Performance Levels                                                            | F   | 3.1.0               | 3.2.0        | T1-000306         |
|               | TP-000215     | 024 |     | Downlink signal conditions and propagation conditions                                 | D   | 3.1.0               | 3.2.0        | T1-000307         |
|               | TP-000215     | 025 |     | Updating 34.108 v3.1.0 to TDD single mode                                             | F   | 3.1.0               | 3.2.0        | T1-000281         |
|               | TP-000215     | 026 |     | Application of integrity mode protection to signalling message by default             | F   | 3.1.0               | 3.2.0        | T1-000296         |
|               | TP-000215     | 027 |     | Updates to the default message contents in clause 9                                   | С   | 3.1.0               | 3.2.0        | T1-000282         |
| TP-10         | TP-000215     | 028 |     | Updates to System Information Block (SIB) and Master Information Block (MIB) messages | С   | 3.1.0               | 3.2.0        | T1-000283         |
| TP-10         | TP-000215     | 029 |     | Application of ciphering during conformance testing                                   | С   | 3.1.0               | 3.2.0        | T1-000285         |
| TP-10         | TP-000215     | 030 |     | Addition for System Information parameters (34.108 clause 6.1)                        | F   | 3.1.0               | 3.2.0        | T1-000304         |
| TP-10         | TP-000215     | 031 |     | Correction for Generic Setup Procedures (34.108 clause 7.2)                           | F   | 3.1.0               | 3.2.0        | T1-000305         |
| TP-11         | TP-010018     | 032 |     | Default radio conditions for multi-cell environment                                   | F   | 3.2.0               | 3.3.0        | T1-010078         |
| TP-11         | TP-010018     | 033 |     | Correction for Generic Setup Procedures (34.108 clause 7.2)                           | F   | 3.2.0               | 3.3.0        | T1-010079         |
| TP-11         | TP-010018     | 034 |     | Corrections for Test USIM Parameters (34.108 clause 8)                                | F   | 3.2.0               | 3.3.0        | T1-010080         |
| TP-11         | TP-010018     | 035 |     | Correction of clause number in TS 34.108.                                             | D   | 3.2.0               | 3.3.0        | T1-010081         |
| TP-11         | TP-010018     | 036 |     | Update of authentication test algorithm                                               | С   | 3.2.0               | 3.3.0        | T1-010082         |
|               | TP-010018     | 037 |     | Updates to clause 9 of TS 34.108 v3.2.0                                               | F   | 3.2.0               | 3.3.0        | T1-010084         |
|               | TP-010018     | 038 |     | Updating to TDD single mode                                                           | F   | 3.2.0               | 3.3.0        | T1-010088         |
| TP-11         | TP-010018     | 039 |     | Simulated network environments for TDD mode (SIB)                                     | F   | 3.2.0               | 3.3.0        | T1-010089         |
|               | TP-010118     | 040 |     | Corrections to clause 6.10 FDD parameters                                             | F   | 3.3.0               | 3.4.0        | T1-010205         |
| TP-12         | TP-010118     | 041 |     | Corrections to clause 6.10 TDD parameters                                             | F   | 3.3.0               | 3.4.0        | T1-010206         |
|               | TP-010118     | 042 |     | Adding section for radio bearer configurations intended for functional testing        | D   | 3.3.0               | 3.4.0        | T1-010210         |
| TP-12         | TP-010118     | 043 |     | Update of list of abbreviations                                                       | D   | 3.3.0               | 3.4.0        | T1-010211         |
|               | TP-010118     | 044 |     | Updates to clause 6.1 and 9                                                           | F   | 3.3.0               | 3.4.0        | T1-010211         |
|               | TP-010118     | 045 |     | Updates to clause 7.4                                                                 | F.  | 3.3.0               |              | T1-010212         |
|               | TP-010118     | 046 |     | clause 6.1: System Information Blocks for TDD Mode                                    | F.  | 3.3.0               | 3.4.0        | T1-010214         |
|               | TP-010118     | 047 |     | Editorial corrections and removal of a reference document                             | F   | 3.3.0               | 3.4.0        | T1-010215         |
|               | TP-010215     | 048 |     | Correction to reference                                                               | F   | 3.4.0               |              | T1-010215         |
|               | TP-010215     | 049 |     | Editorial modification for References                                                 | F   | 3.4.0               | 3.5.0        | T1-010275         |
|               | TP-010215     | 050 |     | Some corrections in clause 5                                                          | F   | 3.4.0               | 3.5.0        | T1-010270         |
|               | TP-010215     | 050 |     | Update to Scope Statement                                                             | F   | 3.4.0               | 3.5.0        | T1-010277         |
|               | TP-010215     | 052 |     | Clause 6.10 Definition of RB configurations, TDD                                      | F   | 3.4.0               | 3.5.0        | T1-010278         |
|               |               |     |     | parameters                                                                            |     |                     |              |                   |
| IP-13         | TP-010215     | 053 |     | Updates to clause 6.1, clause 7.4 and clause 9                                        | F   | 3.4.0               | 3.5.0        | T1-010280         |

| Meeti  | Doc-1st-Level          | CR         | Rev      | Subject                                                                                                          | Cat | Version- | Version        | Doc-2nd-               |
|--------|------------------------|------------|----------|------------------------------------------------------------------------------------------------------------------|-----|----------|----------------|------------------------|
| ng-    |                        |            |          | ,                                                                                                                |     | Current  | -New           | Level                  |
| 1st-   |                        |            |          |                                                                                                                  |     |          |                |                        |
| Level  | TD 040045              | 054        |          | Clause C.A. Defeult redictions for Circulling tests                                                              | _   | 2.4.0    | 2.5.0          | T4 040004              |
|        | TP-010215<br>TP-010215 | 054<br>055 |          | Clause 6.1: Default radio conditions for Signalling tests Correction of Radio Bearer Configurations for FDD Mode | F   | 3.4.0    | 3.5.0          | T1-010281<br>T1-010282 |
|        | TP-010215              | 056        |          | Correction of Radio Bearer Configurations for TDD Mode                                                           | F   | 3.4.0    | 3.5.0          | T1-010282              |
|        | TP-010215              | 057        |          | Changes to Signalling Radio Bearer (SRB) numbering                                                               | F   | 3.4.0    | 3.5.0          | T1-010284              |
|        | TP-010215              | 058        |          | Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1                                                              | F.  | 3.4.0    | 3.5.0          | T1-010285              |
|        | TP-010215              | 059        |          | Correction of system information block 5                                                                         | F   | 3.4.0    | 3.5.0          | T1-010286              |
|        | TP-010215              | 060        |          | Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6                                                          | F   | 3.4.0    | 4.0.0          | T1-010287              |
| TP-13  | TP-010215              | 061        |          | Introduction of System Information Blocks for 1.28 Mcps                                                          | F   | 3.4.0    | 4.0.0          | T1-010288              |
| TD 42  | TD 040045              | 000        |          | TDD Mode                                                                                                         | F   | 2.4.0    | 4.0.0          | T4 040000              |
|        | TP-010215<br>TP-010215 | 062<br>063 |          | Introduction of typical radio parameters for 1.28 McpsTDD Clause 6.11 RBs for RLC and PDCP testing               | F   | 3.4.0    | 4.0.0<br>3.5.0 | T1-010289<br>T1-010290 |
|        | TP-010215              | 065        | 1        | Correction to 6.1 Contents of System Information Blocks                                                          | А   | 4.0.0    | 4.1.0          | T1-010290              |
|        | TP-010285              | 067        | 1        | Corrections to clause 6.1, 7.4 and 9                                                                             | A   | 4.0.0    | 4.1.0          | T1-010473              |
|        | TP-010258              | 069        | <u> </u> | Reference Radio Conditions                                                                                       | Α   | 4.0.0    | 4.1.0          | T1-010461              |
|        | TP-010258              | 071        |          | Modification of Test procedures for RF tests                                                                     | Α   | 4.0.0    | 4.1.0          | T1-010463              |
| TP-14  | TP-010258              | 073        |          | Default message contents for RF tests                                                                            | Α   | 4.0.0    | 4.1.0          | T1-010465              |
| TP-14  | TP-010258              | 075        |          | Correction to 6.10 Reference Radio Bearer configurations                                                         | Α   | 4.0.0    | 4.1.0          | T1-010467              |
| TP-14  | TP-010258              | 077        |          | Definition of default value of rate matching attribute                                                           | Α   | 4.0.0    | 4.1.0          | T1-010469              |
|        | TP-010258              | 079        |          | Update of clause 7.4 and 6.10                                                                                    | Α   | 4.0.0    | 4.1.0          | T1-010471              |
|        | TP-010292              | 081        |          | Correction on introduction of section 6.10                                                                       | Α   | 4.0.0    | 4.1.0          |                        |
| TP-15  | TP-020038              | 083        |          | Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)                                        | А   | 4.1.0    | 4.2.0          | T1-020092              |
| TP-15  | TP-020038              | 085        |          | Update of reference radio conditions (Rel-4)                                                                     | Α   | 4.1.0    | 4.2.0          | T1-020098              |
|        | TP-020038              | 087        |          | Update of system reference configurations and default                                                            | Α   | 4.1.0    | 4.2.0          | T1-020100              |
|        |                        |            |          | messages (Rel-4)                                                                                                 |     |          |                |                        |
|        | TP-020038              | 089        |          | Corrections to 34108-410                                                                                         | Α   | 4.1.0    | 4.2.0          | T1-020102              |
|        | TP-020038              | 091        |          | Introduction of new Reference RABs (Rel-4)                                                                       | Α   | 4.1.0    | 4.2.0          | T1-020195              |
|        | TP-020038              | 094        |          | Update of SIBs for TDD (both modes) in TS34.108 (Rel4)                                                           | F   | 4.1.0    | 4.2.0          | T1-020107              |
| TP-15  | TP-020038              | 095        |          | Clarification of bit rate of Interactive/Background PS RAB                                                       | Α   | 4.1.0    | 4.2.0          | T1-020184              |
|        |                        |            |          | function (Rel-4)  Correction of CR implementation errors in clauses: 6.10.2.2                                    |     | 4.2.0    | 4.2.1          |                        |
|        |                        |            |          | and 6.10.2.4.1.58.2.1.1                                                                                          |     | 4.2.0    | 4.2.1          |                        |
| TP-16  | TP-020141              | 108        |          | Section 7(reference) Update of generic setup procedures to                                                       | F   | 4.2.1    | 4.3.0          | T1-020289              |
|        |                        |            |          | use 13.6 kbps SRB in RRC connection establishment TDD                                                            |     |          |                |                        |
| TD 16  | TP-020141              | 109        |          | (3.84 Mcps and 1.28 Mcps)  Correction to clause 7.3.3.4 RADIO BEARER SETUP                                       | Α   | 4.2.1    | 4.3.0          | T1-020291              |
| 17-10  | 17-020141              | 109        |          | message                                                                                                          | ^   | 4.2.1    | 4.3.0          | 11-020291              |
| TP-16  | TP-020141              | 110        |          | Change of RM attribute of DL:3.4 kbps SRBs for DCCH in                                                           | Α   | 4.2.1    | 4.3.0          | T1-020292              |
|        |                        |            |          | for REL4                                                                                                         |     |          |                |                        |
|        | TP-020141              | 111        |          | New additional RAB configuration (R1-020669) for REL4                                                            | Α   | 4.2.1    | 4.3.0          | T1-020293              |
|        | TP-020141              | 112        |          | Correction of Puncturing Limit for RABs for REL4                                                                 | Α   | 4.2.1    | 4.3.0          | T1-020294              |
|        | TP-020141              | 113        |          | Test USIM                                                                                                        | Α   | 4.2.1    | 4.3.0          | T1-020295              |
|        | TP-020141              | 114        |          | Section 6.1 (SIBs)Rel 4 (3.84 Mcps and 1.28 Mcps TDD)                                                            | F   | 4.2.1    | 4.3.0          | T1-020296              |
| TP-16  | TP-020141              | 115        |          | Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB                 | Α   | 4.2.1    | 4.3.0          | T1-020297              |
| TP-16  | TP-020141              | 116        |          | Correction to default message in clause 9 for Rel4                                                               | Α   | 4.2.1    | 4.3.0          | T1-020298              |
|        | TP-020141              | 117        |          | Correction to clause 6.1 for Rel4                                                                                | Α   | 4.2.1    | 4.3.0          | T1-020299              |
|        | TP-020141              | 118        |          | WCDMA1800 additions for Rel4                                                                                     | Α   | 4.2.1    | 4.3.0          | T1-020300              |
| TP-16  | TP-020141              | 119        |          | Section 9.1 Default message contents for TDD ( 3.84 Mcps                                                         | F   | 4.2.1    | 4.3.0          | T1-020301              |
|        |                        |            |          | and 1.28 Mcps) R4                                                                                                |     |          |                |                        |
| TP-16  | TP-020141              | 121        |          | Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment                          | Α   | 4.2.1    | 4.3.0          | T1-020434              |
| TP-17  | TP-020184              | 123        | -        | Alignment of reference configurations on S-CCPCH with                                                            | Α   | 4.3.0    | 4.4.0          | T1-020503              |
|        | 11 020104              | 120        |          | default system information messages                                                                              | ' ' | 4.0.0    | 7.7.0          | 11 020000              |
| TP-17  | TP-020184              | 125        | -        | Addition of reference compressed mode pattern                                                                    | Α   | 4.3.0    | 4.4.0          | T1-020505              |
| TP-17  | TP-020184              | 127        | -        | Corrections to default message contents as T1S-                                                                  | Α   | 4.3.0    | 4.4.0          | T1-020507              |
|        |                        | 1.5-       |          | 020347rev1                                                                                                       |     |          |                |                        |
|        | TP-020184              | 129        | -        | Additional default message contents for RF Testing                                                               | Α   | 4.3.0    | 4.4.0          | T1-020509              |
| IP-17  | TP-020184              | 131        | -        | Corrections related to SIB11, SIB12 and to the                                                                   | Α   | 4.3.0    | 4.4.0          | T1-020527              |
| TP-17  | TP-020184              | 133        | -        | MEASUREMENT CONTROL message Corrections to clause 6.1 (T1S-020349rev1)                                           | Α   | 4.3.0    | 4.4.0          | T1-020530              |
|        | TP-020184              | 135        | -        | Introduction of reference configurations on S-CCPCH and                                                          | A   | 4.3.0    | 4.4.0          | T1-020530              |
|        |                        |            |          | PRACH with two interactive PS domain RABs                                                                        |     |          |                |                        |
| TP-17  | TP-020184              | 137        | -        | Removal of reference radio bearer configurations for                                                             | Α   | 4.3.0    | 4.4.0          | T1-020541              |
|        | <b>TD</b> 227:-:       | 1.15       |          | unidirectional streaming CS RABa above 64 kbps                                                                   | _   | 10-      |                | <b>-</b>               |
|        | TP-020184              | 140        | -        | Some corrections and updates in clause 6.1 for TDD mode                                                          | F   | 4.3.0    | 4.4.0          | T1-020576              |
| 117-17 | TP-020184              | 142        | -        | Inclusion of default message contents for RF in clause 9.2 for TDD mode                                          | F   | 4.3.0    | 4.4.0          | T1-020578              |
| TP-18  | TP-020293              | 144        | -        | Correction to default messages in 9.1 and 9.2                                                                    | Α   | 4.4.0    | 4.5.0          | T1-020658              |
| 13     | 020200                 |            | 1        |                                                                                                                  |     |          |                |                        |

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| TP-18                | TP-020293     | 146 | -   | Corrections in the TDD test frequencies according to core specs                                                                                     | А   | 4.4.0               | 4.5.0           | T1-020674         |
| TP-18                | TP-020293     | 148 | -   | Addition of alternative configuration using Turbo Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | Α   | 4.4.0               | 4.5.0           | T1-020694         |
| TP-18                | TP-020293     | 150 | -   | Correction to content of sub-clause 6.10.2.                                                                                                         | Α   | 4.4.0               | 4.5.0           | T1-020709         |
|                      | TP-020293     | 152 | -   | Correction to SIB 11/12 definition                                                                                                                  | Α   | 4.4.0               | 4.5.0           | T1-020712         |
|                      | TP-020293     | 154 | -   | Reference Measurement Channels                                                                                                                      | Α   | 4.4.0               | 4.5.0           | T1-020768         |
| TP-18                | TP-020293     | 156 | -   | Transferring system information definition using ASN.1 description to PRD                                                                           | Α   | 4.4.0               | 4.5.0           | T1-020778         |
|                      | TP-020293     | 158 | -   | Correction to RLC RAB TFCS                                                                                                                          | Α   | 4.4.0               | 4.5.0           | T1-020780         |
| TP-18                | TP-020293     | 160 | -   | Default Message contents : Correction from CRs approved in RP17meeting                                                                              | Α   | 4.4.0               | 4.5.0           | T1-020783         |
|                      | TP-020293     | 162 | -   | Corrections to SIB1 to SIB6                                                                                                                         | Α   | 4.4.0               | 4.5.0           | T1-020799         |
|                      | TP-020293     | 164 | -   | Correction to RAB configurations as revision of T1S020756                                                                                           | Α   | 4.4.0               | 4.5.0           | T1-020801         |
|                      | TP-020293     | 166 | -   | Parameter addition for Reference RABs based on LS from RAN2                                                                                         | А   | 4.4.0               | 4.5.0           | T1-020803         |
| TP-18                | TP-020293     | 168 | -   | Addition to clause 7.4 for multi call as T1S-020577rev2 (revision to T1S020820)                                                                     | Α   | 4.4.0               | 4.5.0           | T1-020818         |
|                      | TP-020293     | 169 | -   | RAB Combinations for IMS Services                                                                                                                   | F   | 4.4.0               | 4.5.0           | T1-020819         |
|                      | TP-020293     | 171 | -   | Correction to Contents of the Scheduling Block Syste Information in clause 6.1.3.                                                                   | F   | 4.4.0               | 4.5.0           | T1-020844         |
|                      | TP-030044     | 173 | -   | RAB Removal from Rel 4 TS 34.108 as T1S030002rev1                                                                                                   | Α   | 4.5.0               | 4.6.0           | T1-030037         |
|                      | TP-030044     | 175 | -   | Combine all Radio Bearer Setup messages into one table                                                                                              | Α   | 4.5.0               | 4.6.0           | T1-030040         |
| TP-19                | TP-030044     | 177 | -   | Corrections to SB and SIB configurations in clause 6.1 as T1S030046rev1                                                                             | А   | 4.5.0               | 4.6.0           | T1-030042         |
| TP-19                | TP-030044     | 179 | -   | Correction to TS34.108 Rel-4 ; PAGING TYPE1 message (Packet in PS)                                                                                  | А   | 4.5.0               | 4.6.0           | T1-030044         |
| TP-19                | TP-030044     | 181 | -   | Clarification of autentication test algorithm and GSM cipher key                                                                                    | Α   | 4.5.0               | 4.6.0           | T1-030046         |
| TP-19                | TP-030044     | 183 | -   | Addition of simulated network environment for inter-RAT test cases                                                                                  | А   | 4.5.0               | 4.6.0           | T1-030048         |
| TP-19                | TP-030044     | 185 | -   | Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1.                                                                       | А   | 4.5.0               | 4.6.0           | T1-030050         |
| TP-19                | TP-030044     | 187 | -   | Addition of default inter-RAT handover messages                                                                                                     | Α   | 4.5.0               | 4.6.0           | T1-030052         |
|                      | TP-030044     | 189 | -   | Correction of activation time IEs in default messages                                                                                               | Α   | 4.5.0               | 4.6.0           | T1-030054         |
|                      | TP-030044     | 191 | -   | Correction to default SECURITY MODE COMMAND message                                                                                                 | А   | 4.5.0               | 4.6.0           | T1-030056         |
|                      | TP-030044     | 193 | -   | Addition of option for UL CM only in default reference CM patterns                                                                                  | А   | 4.5.0               | 4.6.0           | T1-030058         |
|                      | TP-030044     | 195 | -   | Introduction of a reference RB configuration for RMC for BTFD tests (Rel4)                                                                          | Α   | 4.5.0               | 4.6.0           | T1-030060         |
|                      | TP-030044     | 197 | -   | Rel4                                                                                                                                                | А   | 4.5.0               | 4.6.0           | T1-030063         |
| TP-19                | TP-030043     | 198 | -   | Introduction of Conversational PS RABs in Rel 4 TS 34.108 as T1S030003rev1                                                                          | F   | 4.5.0               | 4.6.0           | T1-030107         |
| TP-19                | TP-030043     | 200 | -   | Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4, Rel 4                                                                | А   | 4.5.0               | 4.6.0           | T1-030208         |
| TP-19                | TP-030043     | 202 | -   | Update of Multi-cell environment for default radio conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel 4                                      | Α   | 4.5.0               | 4.6.0           | T1-030210         |
|                      | TP-030043     | 204 | -   | Modification to Generic Registration Procedures                                                                                                     | Α   | 4.5.0               | 4.6.0           | T1-030222         |
| TP-19                | TP-030043     | 206 | -   | UĖ                                                                                                                                                  | А   | 4.5.0               | 4.6.0           | T1-030228         |
|                      | TP-030098     | 208 | -   | Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB                                                                             | А   | 4.6.0               | 4.7.0           | T1-030437         |
| TP-20                | TP-030098     | 210 | -   | Correction to Figure 7.4.1.1 (Rel-4)                                                                                                                | Α   | 4.6.0               | 4.7.0           | T1-030483         |
| TP-20                | TP-030098     | 212 | -   | Update of SIB 11 and 12 in clause 6.1.0b in TS34.108 (TDD)                                                                                          | Α   | 4.6.0               | 4.7.0           | T1-030507         |
| TP-20                | TP-030098     | 214 | -   | Update of Default parameters for 1 to 8 cell environments in TS34.108 (TDD)                                                                         | А   | 4.6.0               | 4.7.0           | T1-030509         |
| TP-20                | TP-030098     | 216 | -   | Correction of default messages according to 25331 CR1823                                                                                            | Α   | 4.6.0               | 4.7.0           | T1-030632         |
| TP-20                | TP-030098     | 218 | -   | Section 8.2: Definition of default values for authentication key K on test USIM                                                                     | Α   | 4.6.0               | 4.7.0           | T1-030644         |
| TP-20                | TP-030098     | 219 | -   | Update of Reconfiguration messages                                                                                                                  | Α   | 4.6.0               | 4.7.0           | T1-030692         |
|                      | TP-030098     | 221 | -   | Correction to RADIO BEARER RELEASE and RRC CONNECTION SETUP messages (Revision of T1-030569)                                                        | Α   | 4.6.0               | 4.7.0           | T1-030699         |
| TP-20                | TP-030140     | 226 | -   | Correction to default SIB5 (FDD)                                                                                                                    | Α   | 4.6.0.              | 4.7.0           | T1-030745         |
| TP-21                | TP-030191     | 228 | -   | CR to 34.108, Rel-4, Clarification of seg_count in 6.1.0a.3                                                                                         | Α   | 4.7.0               | 4.8.0           | T1-030827         |
| TP-21                | TP-030191     | 230 | -   | General correction in clause 7.4 for Common generic                                                                                                 | Α   | 4.7.0               | 4.8.0           | T1-030976         |

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| 2010.                         |               |     |     | procedures for AS testing                                                                                                       |     |                     |                 |                   |
| TP-21                         | TP-030191     | 233 | -   | Incorrect activation time in CELL_FACH state .                                                                                  | Α   | 4.7.0               | 4.8.0           | T1-031064         |
| TP-21                         | TP-030191     | 235 | -   | Incorrect Transport Channel Parameters                                                                                          | Α   | 4.7.0               | 4.8.0           | T1-031066         |
| TP-21                         | TP-030191     | 237 | -   | Corrections to TS 34.108 common procedures in clause 7.4 of Rel-4 of TS 34.108                                                  | Α   | 4.7.0               | 4.8.0           | T1-031095         |
| TP-21                         | TP-030191     | 239 | -   | Removal of RLC AM in the Default Message Content                                                                                | Α   | 4.7.0               | 4.8.0           | T1-031151         |
| TP-21                         | TP-030191     | 242 | -   | CR 34.108 Rel-4: Manual attach in State 7 Registrated Idle Mode on CS/PS                                                        | Α   | 4.7.0               | 4.8.0           | T1-031175         |
| TP-21                         | TP-030191     | 244 | -   | URA Identity in Cell Update Confirm and URA Update Confirm                                                                      | Α   | 4.7.0               | 4.8.0           | T1-031179         |
| TP-21                         | TP-030191     | 246 | -   | CR to 34.108 R4; Correction to specification to reflect a change already approved in TTCN CR T1-030396                          | Α   | 4.7.0               | 4.8.0           | T1-031241         |
| TP-21                         | TP-030191     | 248 | -   | CR to 34.108 REL-4; Correction to section 7.3 Test procedures for RF test                                                       | Α   | 4.7.0               | 4.8.0           | T1-031251         |
| TP-21                         | TP-030191     | 240 | -   | RB configuration for the support of wideband AMR speech telephony services                                                      | F   | 4.7.0               | 4.8.0           | T1-031154         |
| TP-22                         | TP-030279     | 51  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031659         |
|                               | TP-030279     | 52  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031660         |
| TP-22                         | TP-030279     | 53  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031661         |
|                               | TP-030279     | 54  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031662         |
| TP-22                         | TP-030279     | 55  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031663         |
| TP-22                         | TP-030279     | 56  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031664         |
| TP-22                         | TP-030279     | 57  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031665         |
| TP-22                         | TP-030279     | 58  |     | Addition of Default message contents for TDD                                                                                    | F   | 4.8.0               | 4.9.0           | T1-031666         |
| TP-22                         | TP-030279     | 60  |     | CR on PAGING TYPE 1, RRC CONNECTION REQUEST and RRC CONNECTION SETUP messages for MT RR Connection                              | A   | 4.8.0               | 4.9.0           | T1-031596         |
| TP-22                         | TP-030279     | 62  |     | CR 34.108 Rel-4: EFRPLMNACT (RPLMN Last used Access Technology) removed                                                         | Α   | 4.8.0               | 4.9.0           | T1-031381         |
| TP-22                         | TP-030279     | 64  |     | Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND                                                   | Α   | 4.8.0               | 4.9.0           | T1-031547         |
| TP-22                         | TP-030279     | 66  |     | Description and corrections of channels for minimum performance levels, TDD mode.                                               | F   | 4.8.0               | 4.9.0           | T1-031645         |
| TP-22                         | TP-030279     | 68  |     | Test frequencies of UMTS800MHz band VI                                                                                          | Α   | 4.8.0               | 4.9.0           | T1-031555         |
| TP-22                         | TP-030279     | 69  |     | CR 34.108 Rel-4: Addition of Bearer combination for<br>Interactive/background UL 64 kbps DL 768 kbps for Rel-5                  | F   | 4.8.0               | 4.9.0           | T1-031441         |
| TP-22                         | TP-030279     | 71  |     | Update of generic test procedure for TX, RX and Performance Requirement                                                         | Α   | 4.8.0               | 4.9.0           | T1-031610         |
| TP-22                         | TP-030279     | 73  |     | Introduction of generic test procedure for RRM handover test cases                                                              | Α   | 4.8.0               | 4.9.0           | T1-031608         |
|                               | TP-030279     | 75  |     | Correction of CM TGD parameter                                                                                                  | Α   | 4.8.0               | 4.9.0           | T1-031591         |
| TP-22                         | TP-030279     | 77  |     | Corrections to default message contents of Radio Bearer Release                                                                 | F   | 4.8.0               | 4.9.0           | T1-031594         |
| TP-22                         | TP-030279     | 79  |     | Modification to default DPCCH_Power_offset value                                                                                | Α   | 4.8.0               | 4.9.0           | T1-031598         |
| TP-22                         | TP-030279     | 83  |     | Correction of TFCS for radio bearer combination 6.10.2.4.1.51b                                                                  | Α   | 4.8.0               | 4.9.0           | T1-031527         |
| TP-23                         | TP-040037     | 284 | -   | New Radio Bearer Setup (FDD) message for RF (Revision of T1-040258)                                                             | F   | 4.9.0               | 4.10.0          | T1-040417         |
| TP-23                         | TP-040037     | 287 | -   | Corrections to default message contents of RRC Connection<br>Setup message -> 2nd change not implemented (not<br>implementable) | A   | 4.9.0               | 4.10.0          | T1-040080         |
| TP-23                         | TP-040037     | 289 | -   | Correction to Default parameters for Cells 1 to 8 in MultiPLMN cell environments – Rel-4                                        | Α   | 4.9.0               | 4.10.0          | T1-040095         |
| TP-23                         | TP-040037     | 291 | -   | Corrections to TDD HCR RABs                                                                                                     | Α   | 4.9.0               | 4.10.0          | T1-040103         |
| TP-23                         | TP-040037     | 296 | -   | LCR Corrections to TDD RABs merge of T1-040104 , T1-040201 and T1-040203                                                        | F   | 4.9.0               | 4.10.0          | T1-040299         |
| TP-23                         | TP-040037     | 298 | -   | Correction to handling of Entered Parameter IE in default contents for Initial Direct Transfer                                  | Α   | 4.9.0               | 4.10.0          | T1-040411         |
| TP-23                         | TP-040037     | 300 | -   | The diverse operation in TDD mode updating according to the core specification                                                  | Α   | 4.9.0               | 4.10.0          | T1-040368         |
| TP-23                         | TP-040037     | 302 | -   | correction of measurement control default message contents for TDD -> Not implemented (not implementable)                       | F   | 4.9.0               | 4.10.0          | T1-040370         |
| TP-23                         | TP-040037     | 303 | -   | correction of RADIO BEARER SETUP default message contents for 1.28 Mcps TDD                                                     | F   | 4.9.0               | 4.10.0          | T1-040371         |
| TP-23                         | TP-040037     | 304 | -   | Correction of RADIO BEARER RELEASE default message contents for TDD: AM or UM (1.28 Mcps TDD)                                   | F   | 4.9.0               | 4.10.0          | T1-040372         |
| TP-23                         | TP-040037     | 305 | -   | Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD) -> Not implemented (not implementable)    | F   | 4.9.0               | 4.10.0          | T1-040373         |
| TP-23                         | TP-040037     | 292 | -   | New I/B UL:64 DL:768 kbps PS RAB misplaced                                                                                      | F   | 4.10.0              | 5.0.0           | T1-040109         |

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| TP-23         | TP-040037     | 294 | -   | Generic setup procedure and default message contents for HSDPA (as of T1-040069rev1)                           | F   | 4.10.0              | 5.0.0        | T1-040271         |
| TP-23         | TP-040037     | 295 | -   | Baseline radio bearer combination for HSDPA support                                                            | В   | 4.10.0              | 5.0.0        | T1-040273         |
| TP-24         | TP-040112     | 308 | =   | Correction to IEs 'START' and 'ul_CounterSynchronisationInfo'.                                                 | F   | 5.0.0               | 5.1.0        | <u>T1-040512</u>  |
| TP-24         | TP-040112     | 309 | 1=  | Correction to HSDPA reference radio bearer configurations                                                      | F   | 5.0.0               | 5.1.0        | T1-040522         |
| TP-24         | TP-040112     | 310 | -   | Addition of test procedure for HSDPA RF testing                                                                | F   | 5.0.0               | 5.1.0        | T1-040546         |
| TP-24         | TP-040112     | 315 | 1=  | Corrections to default RRC messages                                                                            | F   | 5.0.0               | 5.1.0        | T1-040593         |
| TP-24         | TP-040112     | 318 | 1=  | Change of default LAC/RAC for inter-RAT test cases                                                             | Α   | 5.0.0               | 5.1.0        | T1-040656         |
|               | TP-040112     | 319 | =   | Contents of Physical Channel Reconfiguration message modified to incorporate transition to URA_PCH or CELL_PCH | F   | 5.0.0               | 5.1.0        | <u>T1-040</u> 673 |
| TP-24         | TP-040112     | 320 | -   | Correction of reference test frequencies for UMTS800(band VI)                                                  | F   | 5.0.0               | 5.1.0        | <u>T1-040701</u>  |
| TP-24         | TP-040112     | 325 | -   | Update of generic setup procedures in sections 7.3.4 and 7.3.5.                                                | Α   | 5.0.0               | 5.1.0        | <u>T1-040754</u>  |
| TP-24         | TP-040112     | 326 | =   | Physical channel parameters for AM RLC 7 bit Length Indicator TestCases (Rel-5)                                | F   | 5.0.0               | 5.1.0        | <u>T1-040902</u>  |
| TP-24         | TP-040112     | 327 | =   | Corrections to the default contents of Security Mode Command (Rel-5)                                           | F   | 5.0.0               | 5.1.0        | <u>T1-040903</u>  |
| TP-24         | TP-040112     | 330 | -   | Corrections to Contents of Scheduling Block 1 (FDD)                                                            | F   | 5.0.0               | 5.1.0        | T1-040909         |
| TP-24         | TP-040112     | 331 | -   | Corrections to Contents of PHYSICAL CHANNEL<br>RECONFIGURATION message: AM or UM                               | F   | 5.0.0               | 5.1.0        | <u>T1-040911</u>  |
| TP-24         | TP-040112     | 332 | -   | Corrections to Contents of RRC CONNECTION SETUP message: UM                                                    | F   | 5.0.0               | 5.1.0        | <u>T1-040913</u>  |
| TP-24         | TP-040112     | 333 | -   | RADIO BEARER SETUP message (FDD) for Test Loop Mode2.                                                          | F   | 5.0.0               | 5.1.0        | <u>T1-040917</u>  |
| TP-24         | TP-040112     | 335 | -   | Changes to establish one version of 34.108 covering all releases                                               | А   | 5.0.0               | 5.1.0        | <u>T1-040931</u>  |
| TP-24         | TP-040112     | 338 | -   | Addition of generic test procedure for AS test cases using the test loop                                       | А   | 5.0.0               | 5.1.0        | T1-040934         |
| TP-24         | TP-040112     | 339 | -   | Corrections to LCR TDD RABs                                                                                    | F   | 5.0.0               | 5.1.0        | T1-040935         |

### History

|        | Document history |             |  |  |  |  |  |
|--------|------------------|-------------|--|--|--|--|--|
| V5.1.0 | June 2004        | Publication |  |  |  |  |  |
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