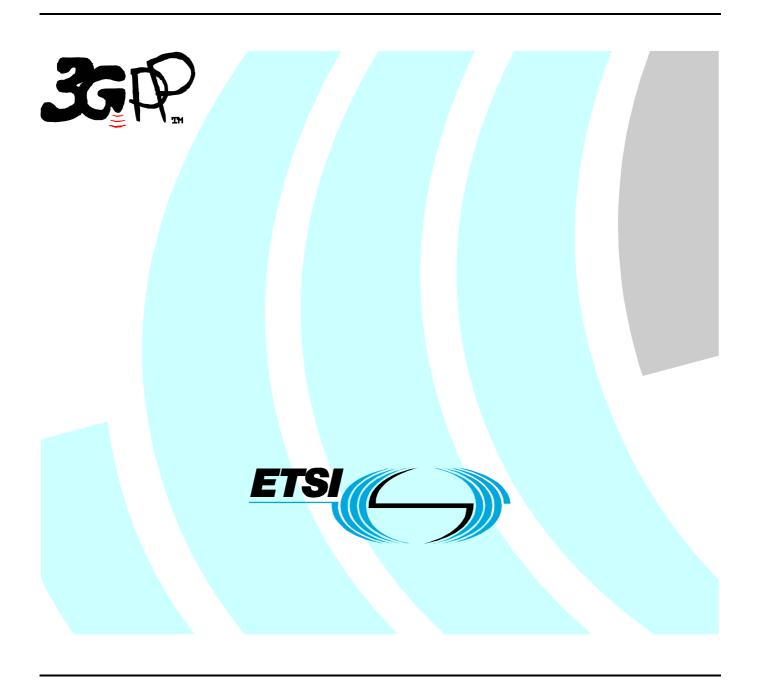
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Foreword

This Technical Specification (TS) has been produced by the 3rd 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:

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 - 1 presented to TSG for information;
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- 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*.

| | • |
|------|---|
| [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)". |

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

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.

Automatic Frequency Control

AFC Automatic Frequency Con 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

DT Direct transfer

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 | |
| CCCH | 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 |
|-----------------|----------------|----------|
| BCCH | 1 | |
| CCCH | 1 | |
| DCCH | 1 | |
| PCCH | 1 | |
| DTCH | 1 | |
| SHCH | 1 | |

4.2.1.2.2 Transport Channels

| Transport Channel | Minimum Number | Comments |
|-------------------|----------------|----------|
| BCH | 1 | |
| FACH | 1 | |
| PCH | 1 | |
| DCH | n <ffs></ffs> | |
| DSCH | 1 | |
| USCH RACH | 1 | |
| RACH | 1 | |

4.2.1.2.3 Physical Channels (3.84 Mcps)

| Physical Channel | Minimum Number | Comments | |
|------------------|----------------|---|--|
| P-CCPCH | 1 | Primary Common Control Physical Channel. This is the Cell | |
| | | Broadcast Channel, transmitted using the Primary Scrambling | |
| | | Code for the Cell. | |
| SCH | 1 | Synchronisation Channel | |
| S-CCPCH | 2 | Secondary Common Control Physical Channel. | |
| PICH | | To identify when the UE should access the PCCH for Paging | |
| | | Messages. | |
| DPCH (DL) | 3 | Downlink Dedicated Physical Channel | |
| PDSCH | 1 | Physical Downlink Shared Channel. | |
| DPCH (UL) | 1 | Uplink Dedicated Physical Channel | |
| PUSCH | 1 | Physical Uplink Shared Channel. | |
| PRACH | 2 | Physical Random Access Channel. | |

4.2.1.2.4 Physical Channels (1.28 Mcps)

| Physical Channel | Minimum Number | Comments |
|------------------|----------------|---|
| P-CCPCH | 1 | Primary Common Control Physical Channel. This is the Cell Broadcast Channel, transmitted using the Primary Scrambling |
| | | Code for the Cell. |
| DwPCH | 1 | Synchronisation Channel |
| UpPCH | 1 | Synchronisation Channel |
| S-CCPCH | 2 | Secondary Common Control Physical Channel. |
| PICH | | To identify when the UE should access the PCCH for Paging |
| | | Messages. |
| DPCH (DL) | 3 | Downlink Dedicated Physical Channel |
| PDSCH | 1 | Physical Downlink Shared Channel. |
| DPCH (UL) | 1 | Uplink Dedicated Physical Channel |
| PUSCH | 1 | Physical Uplink Shared Channel. |
| FPACH | 1 | Fast Physical Access Channel |
| PRACH | 2 | Physical Random Access Channel. |

4.2.1.3 Support of T_{cell} 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.

NOTE: 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.

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 3 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 |

5.1.2 TDD Mode Test frequencies

The reference test frequencies for the common test environment in the TDD [12] Bands are defined in the following tables.

5.1.2.1 Standard TDD reference test frequencies (3.84 Mcps option)

| | Band 1 | | Band 2 | |
|-------------------|--------|-----------------------|--------|-----------------------|
| Test Frequency ID | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range | 9 513 | 1 902.6 MHz | 10 063 | 2 012.6 MHz |
| Mid Range | 9 550 | 1 910 MHz | 10 087 | 2 017.4 MHz |
| High Range | 9 587 | 1 917.4 MHz | 10 112 | 2 022.4 MHz |

5.1.2.1A Standard TDD reference test frequencies (1.28 Mcps option)

| | Band 1 | | nd 1 Band 2 | |
|-------------------|--------|-----------------------|-------------|-----------------------|
| Test Frequency ID | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range | 9504 | 1 900.8 MHz | 10 054 | 2 010.8 MHz |
| Mid Range | 9550 | 1 910 MHz | 10 087 | 2 017.4 MHz |
| High Range | 9596 | 1 919.2 MHz | 10 121 | 2 024.2 MHz |

5.1.2.2 TDD reference test frequencies for ITU Region 2 (3.84 Mcps option)

a)

| | Band 1 | | Band 2 | |
|-------------------|--------|-----------------------|--------|-----------------------|
| Test Frequency ID | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| 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 |

| Test Frequency ID | UARFCN | Frequency (UL and DL) |
|-------------------|--------|-----------------------|
| Low Range | 9 563 | 1 912.6 MHz |
| Mid Range | 9 600 | 1 920 MHz |
| High Range | 9 637 | 1 927.4 MHz |

5.1.2.2A TDD reference test frequencies for ITU Region 2 (1.28 Mcps option)

a)

| | | Band 1 | Band 2 | | |
|-------------------|--------|-----------------------|--------|-----------------------|--|
| Test Frequency ID | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | |
| Low Range | 9 254 | 1 850.8 MHz | 9 654 | 1 930.8 MHz | |
| Mid Range | 9 400 | 1 880 MHz | 9 800 | 1 960 MHz | |
| High Range | 9 546 | 1 909.2 MHz | 9 946 | 1 989,2 MHz | |

b)

| Test Frequency ID | UARFCN | Frequency (UL and DL) |
|-------------------|--------|-----------------------|
| Low Range | 9554 | 1910.8 MHz |
| Mid Range | 9600 | 1920 MHz |
| High Range | 9646 | 1929,2 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) and dual mode networks (FDD+TDD).

It is <ffs> whether a reference environment needs to be defined for multi-mode networks (eg: the environment could be created by combining two appropriate reference environments from the single mode cases).

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

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. 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 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_ COUNT | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 1 | 3 | 3 | 1 |

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

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

| MIB value tag | 1 |
|---|---|
| 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)). |
| - MNC digit | Set to the same Mobile Network Codesstored in the test 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 | 1 |
| - Scheduling | |
| - SEG_COŬNT | 1 |
| - SIB_REP | 16 |
| - SIB_POS | 2 |
| - SIB_POS offset info | Not Present – use default |
| - SIB type | Scheduling Block 1 |
| Scheduling information | Ĭ |
| - CHOICE Value tag | PLMN Value tag |
| - PLMN Value tag | 1 |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 22 |
| - SIB_POS offset info | Not Present – use default |
| · SIB type | System Information Type 1 |
| Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 22 |
| - SIB_POS offset info | Not Present – use default |
| SIB type | System Information Type 2 |
| Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |

| - SIB_POS | 20 |
|--------------------------|---------------------------|
| - SIB_POS offset info | Not Present – use default |
| - SIB type | System Information Type 3 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 1 |
| - SIB_REP | 64 |
| - SIB_POS | 52 |
| - SIB_POS offset info | Not Present – use default |
| - SIB 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 |
| - SIB_OFF | 2 |
| - SIB type | System Information Type 5 |

Contents of Scheduling Block 1 (FDD and 1.28 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 | 64 |
| - SIB_POS | 6 |
| - SIB_POS offset info | |
| - SIB_OFF | 4 |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 6 |
| - 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 | System and Type I |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 3 |
| - SIB_REP | 64 |
| - SIB_POS | 58 |
| - SIB_POS offset info | 50 |
| | |
| - SIB_OFF | 2 |
| - SIB_OFF | |
| - 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 | ' |
| - CHOICE Value tag | PLMN Value tag |
| - PLMN Value tag | 1 |
| 1 | 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 |
| | 128 |
| - SIB_REP | |
| - 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 | |
| - CHOICE Value tag | Not Present |
| - SEG_COUNT | 1 |
| - SIB_REP | 16 |
| - SIB_POS | 2 |
| | Not Droppet |
| - 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 | 29 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 11 |
| - Scheduling information | System mornation Type TT |
| | Call Value tog |
| - 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_REF - 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 |
| ,,,,, | 1-7 |

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)

| - CN common GSM-MAP NAS system | |
|---|--|
| information | |
| - GSM-MAP NAS system information | 00 80H |
| - CN domain system information | 00 0011 |
| - CN domain identity | PS |
| - CHOICE CN Type | GSM-MAP |
| - CN domain specific NAS system information | |
| - GSM-MAP NAS system information | 00 00H |
| - CN domain specific DRX cycle length | 7 |
| coefficient | ľ |
| - 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 | 7 |
| coefficient | |
| - UE Timers and constants in idle mode | |
| -T300 | 4000 milliseconds |
| -N300 | 7 |
| -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 (4000 milliseconds: default value) |
| - N302 | Not Present (3: default value) |
| - T304 | Not Present (2000 milliseconds: default value) |
| - N304 | 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) |

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 | |
| - Mapping info | Not Present |
| - Cell selection_and_reselection_quality | CPICH RSCP |
| measure | or for recor |
| - 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 | Neierende to table 6.1.1 |
| - Cell barred | Not barred |
| - Intra-frequency cell re-selection indicator | Not present |
| - T _{barred} | Not present |
| - Cell Reserved for operator use | Not reserved |
| - Cell Reservation Extension | Not reserved |
| - Access Class Barred List | 110110001100 |
| - 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 0000 0001B |
| - Cell selection and re-selection info | |
| - Mapping info | Not present |
| - Cell selection_and_reselection_quality | (no data) |
| measure | , , |
| - 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 _{barred} | 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 | CPICH RSCP |
| measure | |
| - 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 | 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 |
| - Cell barred | Not barred |
| - Intra-frequency cell re-selection indicator | Not present |
| - T _{barred} | Not present |
| - Access Class Barred | Not barred |
| - 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 (similar to SIB type3) (3.84 Mcps TDD and 1.28 Mcps TDD)

| - Cell identity | 0000 0000 0000 0000 0000 0000 0001B |
|---|-------------------------------------|
| - Cell selection and re-selection info | |
| - Mapping info | Not Present |
| - Cell_selection_and_reselection_quality_ | (no data) |
| measure | |
| - 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 _{barred} | 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 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 | |
| - PRACH system information | |
| - PRACH info | |
| - CHOICE mode | FDD |
| - Available Signature | '0000 0000 1111 1111'B |
| - Available SF | 64 |
| - Preamble scrambling code number | 0 |
| | 1.00 |
| - Puncturing Limit | |
| - 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 | |
| | 1 |
| - Number of Transport blocks | 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 |
| | Cornigured |
| - 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 | |
| - Normal | |
| | |
| - TFCI Field 1 information | |
| - 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 |
| | FDD |
| - CHOICE Mode | |
| - Power offset Pp-m | 0 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - 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 | (1111'B |
| | |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#3) |

```
- Available signature End Index
                                                7 (ASC#3)
  - Assigned Sub-channel Number
                                                '1111'B
                                                Not Present
 - ASC Setting
 - ASC Setting
                                                FDD
 - CHOICE mode
  - Available signature Start Index
                                                0 (ASC#5)
  - Available signature End Index
                                                7 (ASC#5)
  - Assigned Sub-channel Number
                                                '1111'B
 - ASC Setting
                                                Not Present
 - ASC Setting
 - CHOICE mode
                                                FDD
  - Available signature Start Index
                                                0 (ASC#7)
  - Available signature End Index
                                                7 (ASC#7)
  - Assigned Sub-channel Number
                                                '1111'B
- Persistence scaling factor
- Persistence scaling factor
                                                0.9 (for ASC#2)
                                                0.9 (for ASC#3)
- Persistence scaling factor
- Persistence scaling factor
                                                0.9 (for ASC#4)
- Persistence scaling factor
                                                0.9 (for ASC#5)
- Persistence scaling factor
                                                0.9 (for ASC#6)
- Persistence scaling factor
                                                0.9 (for ASC#7)
- 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)
- Primary CPICH DL TX power
                                                31
- Constant value
                                                -10
- PRACH power offset
- Power Ramp Step
                                                3dB
- Preamble Retrans Max
- RACH transmission parameters
- Mmax
- NB01min
                                                3 slot
- NB01max
                                                10 slot
- AICH info
- Channelisation code
                                                FALSE
- STTD indicator
- AICH transmission timing
Secondary CCPCH system information
- Secondary CCPCH info
- Secondary scrambling code
                                                Not Present
- STTD indicator
                                                FALSE
                                                64
- Spreading factor
- Code number
- Pilot symbol existence
                                                FALSE
- TFCI existence
                                                TRUE
                                                Flexible
- Fixed or Flexible position
- Timing offset
- TFCS
                                                (This IE is repeated for TFC number for PCH and FACH.)
- Normal
 - TFCI Field 1 information
 - CHOICE TFCS representation
                                                Complete reconfiguration
  - TFCS complete information
  - CHOICE CTFC Size
                                                4 bit
   - CTFC information
                                                Not Present
   - Power offset information
   - CTFC information
   - Power offset information
                                                Not Present
   - CTFC information
   - Power offset information
                                                Not Present
   - CTFC information
   - Power offset information
                                                Not Present
   - CTFC information
   - Power offset information
                                                Not Present
   - CTFC information
```

| Power offset information | Not Present |
|--|--|
| - CTFC information | 6 |
| - Power offset information | Not Present |
| - CTFC information | o la |
| | 0 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (PCH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 240 |
| | 240 |
| - 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 | 7122 |
| | 40 |
| - 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 |
| - 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 | Z EDD |
| - 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 | 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 |
| | 1 |
| - Number of Transport blocks | EDD. |
| - 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 |
| - PICH info | |
| - Channelisation code | 2 |
| - 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 | lo [*] |
| - Cell parameters ID | Not Present |
| - SCTD indicator | FALSE |
| - PRACH system information list | T ALOE |
| - PRACH system information | |
| - PRACH info | |
| | TDD |
| - 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 |
| - PNBSCH allocation | Not Present /REL-4/ |
| - Transport Channel Identity | 15 |
| - RACH TFS | 15 |
| | Common transport shannels |
| - 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 TB and TTI ListNumber of Transport blocks | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set |
| Number of TB and TTI ListNumber of Transport blocksCHOICE Mode | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD |
| Number of TB and TTI ListNumber of Transport blocks | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present |
| Number of TB and TTI ListNumber of Transport blocksCHOICE Mode | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD |
| Number of TB and TTI List Number of Transport blocks CHOICE Mode Transmission Time Interval | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present |
| Number of TB and TTI List Number of Transport blocks CHOICE Mode Transmission Time Interval CHOICE Logical Channel List | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present |
| Number of TB and TTI List Number of Transport blocks CHOICE Mode Transmission Time Interval CHOICE Logical Channel List Semi-static Transport Format information | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured |
| - 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 | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| - 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 | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| - 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 | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| - 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 | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| - 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 - RACH TFCS | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| - 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 - RACH TFCS - PRACH partitioning | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| 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 RACH TFCS PRACH partitioning Access Service Class | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD |
| 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 RACH TFCS PRACH partitioning Access Service Class ASC Settings CHOICE mode CHOICE TDD option Available Channelisation codes indices | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings - CHOICE mode - CHOICE TDD option | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD 3.84 Mcps TDD |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 Size1 Size1 Size1 Size1 Size1 |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE TDD option - Available Channelisation codes indices - CHOICE Subchannel size - Available Subchannels | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null Size1 null Size1 null |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE Subchannels - ASC Settings - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD Size1 null (ASC#2) |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE Subchannels - ASC Settings - CHOICE Subchannel size - Available Subchannels - ASC Settings - CHOICE subchannels | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#2) TDD |
| - 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 - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE Subchannels - ASC Settings - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings | Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD Not Present Configured Reference clause 6.10 Parameter Set Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD Size1 null (ASC#2) |

```
- 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
                                                TDD
  - CHOICE TDD option
                                                3.84 Mcps TDD
  - Available Channelisation codes indices
                                                Not Present (Default all)
                                                Size1
  - CHOICE subchannel size
   - Available Subchannels
                                                null
                                                (ASC#5)

    ASC Settings

  - 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
  - Available Channelisation codes indices
                                                Not Present (Default all)
  - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
- Persistence scaling factors
- Access Service Class
 - 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)
                                                0.9 (for ASC#6)
 - Persistence scaling factor

    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
- Secondary CCPCH info
- CHOICE mode
                                                TDD
 - Offset
                                                0
 - Common timeslot info
  - 2<sup>nd</sup> interleaving mode
  - 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
                                                Reference clause 6.10 Parameter Set
  - TFCI existence
  - Midamble Shift and burst type
  - CHOICE TDD option
                                                3.84 Mcps TDD
                                                Type 1
    - CHOICE Burst Type
    - Midamble Allocation Mode
                                                Default midamble
    - Midamble configuration burst type 1 and 3
    - Midamble Shift
                                                Not Present
  - CHOICE TDD option
                                                3.84 Mcps TDD
    - no data
 - Code List
  - Channelisation Code
                                                (This IE is repeated for Code number for PCH and
```

FACH)

- 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

- 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

- 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

- CHOICE TDD option

- Timeslot number

- Midamble shift and burst type

- CHOICE TDD option

- CHOICE Burst Type

(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

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)

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 14 (for FACH)

FALSE

TDD

3.84 Mcps TDD

0

3.84 Mcps TDD

Type 1

| - Midamble Shift | 0 | |
|-------------------------------|-------------|--|
| - Channelisation code | 16/16 | |
| - Repetition period/length | 64/2 | |
| - Offset | 0 | |
| - Paging indicator length | 4 | |
| - N _{GAP} | 4 | |
| - N _{PCH} | 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 M 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 | 4.20 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 | Not present |
| - 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 |
| - 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 | |

| - Access Service Class | |
|---|---|
| - ASC Settings | (ASC#0) |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps TDD |
| Available SYNC_UL codes indices | "11111 ¹ 11" |
| - CHOICE subchannel size | Size1 |
| Available Subchannels | Null |
| - ASC Settings | (ASC#1) |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps TDD |
| - Available SYNC_UL codes indices | "11111111" Size1 |
| CHOICE subchannel size Available Subchannels | Null |
| - Available Subcharmers - ASC Settings | (ASC#2) |
| - 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#3) |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps TDD |
| Available SYNC_UL codes indices CHOICE subchannel size | "11111111" Size1 |
| - Available Subchannels | Null |
| - ASC Settings | (ASC#4) |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps TDD |
| Available SYNC_UL codes indices | "11111 ¹ 11" |
| CHOICE subchannel size | Size1 |
| - Available Subchannels | Null |
| - ASC Settings | (ASC#5) |
| - CHOICE mode | TDD |
| CHOICE TDD option Available SYNC UL codes indices | 1.28 Mcps TDD "11111111" |
| - CHOICE subchannel size | 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 | Null |
| - Access Service Class | 0.0 (for ASC#3) |
| Persistence scaling factor Persistence scaling factor | 0.9 (for ASC#2) 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 AC-to-ASC mapping | 3 (AC12) 2 (AC13) |
| - AC-to-ASC mapping - 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 | |
| - Secondary CCPCH info | |
| - CHOICE mode | TDD |
| - Offset | 0 |
| - Common timeslot info | Frama |
| 2nd interleaving mode TFCI coding | Frame Reference clause 6.10 Parameter Set |
| - Puncturing limit | Reference clause 6.10 Parameter Set |
| - Repetition period | 1 |
| | 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
- 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

0

1.28 Mcps TDD

0

Reference clause 6.10 Parameter Set

1.28 Mcps TDD

Default midamble

4

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

FALSE

TDD

1.28 Mcps TDD

0

Default midamble

8

Not Present

(16/1)

| - Channelisation code | (16/2) | |
|-------------------------------|-------------|--|
| - Repetition period/length | 64/2 | |
| - Offset | 0 | |
| - Paging indicator length | 4 | |
| - N _{GAP} | 4 | |
| - N _{PCH} | 2 | |
| - CBS DRX Level 1 information | Not Present | |

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

| DIOLL " . | Te in |
|--|---------------------------|
| - PICH power offset | -5 dB |
| - CHOICE Mode | FDD |
| - AICH power offset | 5 dB |
| - Primary CCPCH info | 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 |
| - 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 | Comiguiou |
| - Transmission time interval | 20 ms |
| - Type of channel coding | Convolutional |
| - Coding Rate | 1/2 |
| | 150 |
| - Rate matching attribute | |
| - CRC size | 16 |
| - RACH TFCS | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS addition 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 |
| - Gain factor &c | 11 |
| - Gain factor &d | 15 |
| - Reference TFC ID | 0 |
| - CHOICE Mode | FDD |
| | |
| - Power offset Pp-m | 0 dB |
| - PRACH partitioning | |
| - Access Service Class | N. B. |
| - 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 |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#3) |
| - Available signature End Index | 7 (ASC#3) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| - ASC Setting | Trock room |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#5) |
| • | |
| - Available signature End Index | 7 (ASC#5) 1111 |
| - Assigned Sub-channel Number | |
| - ASC Setting | Not Present |
| - ASC Setting | rnn |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#7) |
| - Available signature End Index | 7 (ASC#7) |
| - Assigned Sub-channel Number | '1111'B |
| - Persistence scaling factor | |
| - 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) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping | Not Present |
| - Primary CPICH DL 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 |
| - NB01max | 10 slot |
| - AICH info | |
| - Channelisation code | 3 |
| - STTD indicator | FALSE |
| - AICH transmission timing | 0 |
| - Secondary CCPCH system info | |
| - Secondary CCPCH info | |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE |
| - Fixed or Flexible position | Flexible |
| - Timing offset | 0 |
| - TFCS | (This IE is repeated for TFC number for PCH and FACH.) |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS addition 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 |
| | p. 12. 1. 1. 2001 |

| CTFC information | le l |
|--|---------------------------|
| - CTFC information | 5 Not Droppet |
| - Power offset information | Not Present |
| - CTFC information | 6 Not Broomt |
| - Power offset information | Not Present |
| - CTFC information | 8 |
| - Power offset information | Not Present |
| - FACH/PCH information | (701) |
| - TFS | (PCH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | (2001) |
| - RLC Size | 240 (PCCH) |
| - 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 | Convolutional |
| - 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 | 100 |
| - 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 | 10 |
| - 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 - CTCH indicator | 13 (for FACH) |
| - TFS | FALSE (FACH) |
| _ | (FACH) |
| - CHOICE Transport channel type - Dynamic Transport format information | Common transport channels |
| - RLC Size | 360 |
| - Number of TB and TTI List | 500 |
| - Number of TB and TTI List - Number of Transport blocks | 0 |
| | 1 |
| Number of Transport blocks CHOICE Mode | FDD |
| - CHOICE Mode - CHOICE Logical Channel List | ALL |
| - Semi-static Transport Format information | ALL |
| - 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 |
| - PICH indicator | I ALUL |
| - Channelisation code | 2 |
| - Number of PI per frame | 18 |
| - STTD indicator | FALSE |
| - CBS DRX Level 1 information | Not Present |
| ODO DION LOVOI I IIIIOIIII autori | HOCH FOODIR |

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
                                               -10
 - DPCH Constant Value
                                               -10
 - PUSCH Constant Value
                                               -10
 Primary CCPCH info
 - CHOICE mode
                                               TDD
 - CHOICE TDD option
                                               3.84 Mcps TDD
                                                                   /REL-4/
                                               Sync Case 2
 - CHOICE SyncCase
 Timeslot
 - Cell parameters ID
                                               Not Present
 - SCTD indicator
                                               FALSE
 PRACH system information list
PRACH system information
- PRACH info
 - CHOICE mode
                                               ITDD
 - CHOICE TDD option
                                               3.84 Mcps TDD
                                                                   /REL-4/
  - Timeslot number
                                               14
  - PRACH Channelisation Code List
  - CHOICE SF
                                               SF8
   - Channelisation Code List
                                               8/1
   - Channelisation Code
    - Channelisation Code
                                               8/2
                                               8/3
    - Channelisation Code
    - Channelisation Code
                                               8/4
  - PRACH Midamble
                                               Direct
- 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
                                               Reference clause 6.10 Parameter Set
 - Coding Rate
 - 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
                                                                   /REL-4/
   - Available Channelisation codes indices
                                               Not Present (Default all)
   - CHOICE subchannel size
                                               Size1
   - Available Subchannels
                                               null
                                               (ASC#1)
 - ASC Settings
  - CHOICE mode
                                               TDD
                                               3.84 Mcps TDD
   - CHOICE TDD option
                                                                   /REL-4/
   - 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
                                                                   /RFL-4/
   - Available Channelisation codes indices
                                               Not Present (Default all)
   - CHOICE subchannel size
                                               Size1
    - Available Subchannels
```

null

3GPP TS 34.108 version 4.3.0 Release 4 46 - 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 /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#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 ŤDD - 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 - Persistence scaling factor 0.9 (for ASC#2) - Persistence scaling factor 0.9 (for ASC#3) 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 - Common timeslot info - 2nd 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 - CHOICE TDD option 3.84 Mcps TDD - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type Type 1 - Midamble Allocation Mode Default midamble - Midamble configuration burst type 1 and 3 - Midamble Shift Not Present

/REL-4/ Reference clause 6.10 Parameter Set

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

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

- CTFC information - Power offset information

- Channelisation Code

- TFCI Field 1 information - CHOICE TFCS representation

- CHOICE CTFC Size

- FACH/PCH information

- CHOICE Transport channel type

- Dynamic Transport format information

- TFCS complete reconfiguration information

- RLC Size

- Code List

- TFCS - Normal

- Number of TB and TTI List

- Number of Transport blocks Reference clause 6.10 Parameter Set - CHOICE Mode TDD - Transmission Time Interval Reference clause 6.10 Parameter Set - CHOICE Logical Channel List Al I - 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 - Transport Channel Identity 12 (for PCH) - CTCH indicator **FALSE** (FACH) - 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 - Transmission Time Interval Reference clause 6.10 Parameter Set - CHOICE Logical Channel List ALL - Semi-static Transport Format information - Transmission time interval Reference clause 6.10 Parameter Set - Type of channel coding Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set - Coding Rate - Rate matching attribute Reference clause 6.10 Parameter Set - CRC size Reference clause 6.10 Parameter Set - Transport Channel Identity 13 (for FACH) - TFS (FACH) - CHOICE Transport channel type Common transport channels - Dynamic Transport format information (This IE is repeated for TFI number.) Reference clause 6.10 Parameter Set - RLC Size - Number of TB and TTI List Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set - Number of Transport blocks - CHOICE Mode TDD - CHOICE Logical Channel List ALL - Semi-static Transport Format information Reference clause 6.10 Parameter Set - Transmission time interval Reference clause 6.10 Parameter Set - Type of channel coding - Coding Rate Reference clause 6.10 Parameter Set - Rate matching attribute Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set - CRC size - Transport Channel Identity 14 (for FACH) - CTCH indicator FALSE - CTCH indicator FALSE - PICH info - CHOICE mode TDD - CHOICE TDD option 3.84 Mcps TDD - Timeslot number

- Timeslot number
- Midamble shift and burst type
- CHOICE Burst Type
- Midamble Shift
- Channelisation code
- Repetition period/length
- Offset
- Paging indicator length
- N_{GAP}
- N_{PCH}
- Midamble shift and burst type

Type 1
0
16/16
64/2
0
42
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)

| 71 | 3,111, (|
|--|-------------------------------------|
| - 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 | |
| - CHOICE TDD option | 1.28 Mcps TDD /REL-4/ |
| - Timeslot number | 1 |
| PRACH Channelisation Code List | |
| - Channelisation Code List | |
| - Channelisation Code | (8/1) |
| Midamble Shift and burst type | |
| - CHOICE TDD option | 1.28 Mcps TDD /REL-4/ |
| Midamble Allocation Mode | Default midamble |
| Midamble configuration | 8 |
| - Midamble Shift | Not present |
| - FPACH info | |
| - Timeslot number | 6 |
| Channelisation code | (16/16) |
| Midamble Shift and burst type | |
| - 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 | I |
| | |

- 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
- 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
- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- Access Service Class
- 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
- 2nd interleaving mode
- TFCI coding
- Puncturing limit
- Repetition period
- Repetition length
- Individual timeslot info
- CHOICE TDD option
- Timeslot number
- TFCI existence
- 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

"111111111"

Size1 Null

(ASC#2) TDD

1.28 Mcps TDD

"111111111"

Size1 Null (ASC#3) TDD

1.28 Mcps TDD

"111111111"

Size1 Null (ASC#4) TDD

1.28 Mcps TDD

"111111111"

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

Frame

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

1

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_{GAP}
- N_{PCH}
- 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 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

C

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)

| - 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)

| - SIB12 indicator | TRUE |
|--|---|
| - FACH measurement occasion info | Not Present |
| - Measurement control system information | |
| - Use of HCS | Not used |
| - Cell_selection_and_reselection_quality | CPICH RSCP |
| measure | |
| - Intra-frequency measurement system | |
| information - Intra-frequency measurement identity | 1 |
| - Intra-frequency cell info list | |
| - CHOICE intra-frequency cell removal | Remove no intra-frequency cells |
| - New intra-frequency cells | Tromove ne mad nequency cone |
| - Intra-frequency cell id | 1 |
| - Cell info | |
| - Cell individual offset | 0dB |
| - Reference time difference to cell | Not Present |
| - Read SFN indicator | TRUE |
| - CHOICE mode | FDD |
| - Primary CPICH info | Defends alone (ideal IID foots as the sell No. 4 (EDD) |
| - Primary scrambling code | Refer to clause titled "Default settings for cell No.1 (FDD)" |
| - Primary CPICH TX power | in clause 6.1 Not Present |
| - TX Diversity indicator | FALSE |
| - Cell Selection and Re-selection info | Not Present |
| - Cell for measurement | Not Present |
| - Intra-frequency cell id | 2 |
| - Cell info | |
| - Cell individual offset | 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)" |
| Drimon, CDICH TV nower | in clause 6.1 Not Present |
| - Primary CPICH TX power - TX Diversity indicator | FALSE |
| - Cell Selection and Re-selection info | FALSE |
| - Qoffset1 _{s.n} | 0 dB |
| - Qoffset2s,n | Not Present |
| - Maximum allowed UL TX power | Reference to table 6.1.1 |
| - HCS neighbouring cell information | Not Present |
| - CHOICE mode | FDD |
| - Qqualmin | Reference to table 6.1.1 |
| - Qrxlevmin | Reference to table 6.1.1 |
| - Cell for measurement | Not Present |
| - Intra-frequency cell id | 3 |
| - Cell info | 0.15 |
| - Cell individual offset | OdB |
| - Reference time difference to cell - Read SFN indicator | Not Present TRUE |
| - CHOICE mode | FDD |
| - Primary CPICH info | 1 BB |
| - Primary scrambling code | Refer to clause titled "Default settings for cell No.3 (FDD)" |
| l missif consuming code | in clause 6.1 |
| - Primary CPICH TX power | Not Present |
| - TX Diversity indicator | FALSE |
| Cell Selection and Re-selection info | |
| - Qoffset1 _{s,n} | 0 dB |
| - Qoffset2s,n | Not Present |
| Maximum allowed UL TX power | Reference to table 6.1.1 |
| - HCS neighbouring cell information | Not Present |
| - CHOICE mode | FDD |
| - Qqualmin | Reference to table 6.1.1 |
| - Qrxlevmin | Reference to table 6.1.1 |
| - Cell for measurement | Not Present |
| - Intra-frequency cell id | 4 |

- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s,n}
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1s.n
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1 $_{s,n}$
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.4 (FDD)"

in clause 6.1

Not Present

FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

5

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.5 (FDD)"

in clause 6.1 Not Present

FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

6

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.6 (FDD)"

in clause 6.1 Not Present

FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1 Not Present

7

0dB

Not Present TRUE

FDD

Refer to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1

- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s,n}
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qaualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s,n}
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency measurement quantity
- Filter coefficient
- Measurement quantity
- Intra-frequency reporting quantity for RACH Reporting
- Maximum number of reported cells on RACH
- Reporting information for state CELL_DCH
- Intra-frequency reporting quantity
- Reporting quantities for active set cells
- SFN-SFN observed time difference type
- Cell identity reporting indicator
- Cell synchronisation information reporting indicator
- CHOICE mode
- CPICH Ec/N0 reporting indicator
- CPICH RSCP reporting indicator
- Pathloss reporting indicator
- Reporting quantities for monitored set cells
- SFN-SFN observed time difference type
- Cell identity reporting indicator
- Cell synchronisation information 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

Not Present FALSE

0 4D

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

8

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.8 (FDD)"

in clause 6.1 Not Present

FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

n

CPICH RSCP Not Present

Not Present

No report

TRUE

FALSE

FDD

FALSE TRUE

FALSE

No report

TRUE

TRUE

FDD

FALSE TRUE

FALSE

Not Present

Acknowledged mode RLC

Event trigger

Intra-frequency measurement reporting criteria

3 kinds

1a

Not Present

Active set cells and monitored set cells

| 1 | 1 |
|--|---|
| - Reporting Range | 5dB |
| - Cells forbidden to affect Reporting range | Not Present |
| - W | 1.0 |
| - Hysteresis | 0.0 |
| - Threshold Used Frequency | Not Present |
| - Reporting deactivation threshold | 2 |
| - Replacement activation threshold | Not Present |
| - Time to trigger | 640 |
| - Amount of reporting | 4 |
| - Reporting interval | 4000 |
| - Reporting interval - Reporting cell status | 4000 |
| | Depart cell within active act and/or manitored act cells on |
| - CHOICE reported cell | Report cell within active set and/or monitored set cells on |
| | used frequency |
| - Maximum number of reported cells | 3 |
| - Intra-frequency event identity | 1b |
| - Triggering condition 1 | Active set cells and monitored set cells |
| - Triggering condition 2 | Not Present |
| - Reporting Range | 5dB |
| - Cells forbidden to affect Reporting range | Not Present |
| - W | 1.0 |
| - Hysteresis | 0.0 |
| - Threshold Used Frequency | Not Present |
| - Reporting deactivation threshold | Not Present |
| - Replacement activation threshold | Not Present |
| - Time to trigger | 640 |
| - Amount of reporting | Not Present |
| - Reporting interval | Not Present |
| - Reporting interval - Reporting cell status | NOT LESCH |
| | Papart call within active set and/or manitared set calls on |
| - CHOICE reported cell | Report cell within active set and/or monitored set cells on |
| | used frequency |
| - Maximum number of reported cells | 3 |
| - Intra-frequency event identity | 10 |
| - Triggering condition 1 | Not Present |
| - Triggering condition 2 | Not Present |
| - Reporting Range | Not Present |
| - Cells forbidden to affect Reporting range | Not Present |
| - W | Not Present |
| - Hysteresis | 0.0 |
| - Threshold Used Frequency | Not Present |
| - Reporting deactivation threshold | Not Present |
| - Replacement activation threshold | 3 |
| - Time to trigger | 640 |
| - Amount of reporting | 4 |
| - Reporting interval | 4000 |
| - Reporting cell status | |
| - CHOICE reported cell | Report cell within active set and/or monitored set cells on |
| O TOTOL TOPOLICA COII | used frequency |
| - Maximum number of reported cells | 3 |
| | Not Present |
| - Inter-frequency measurement system information | INOL FIESEIIL |
| | Net Dresent |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system | Not Present |
| information | |
| - UE internal measurement system information | Not Present |

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

| - SIB 12 Indicator | TRUE | |
|--|-------------|--|
| - FACH measurement occasion info | Not Present | |
| - Measurement control system information | n | |
| - Use of HCS | Not used | |
| - Cell_selection_and_reselection_quality | (no data) | |
| measure | | |
| - Intra-frequency measurement system | | |
| information | | |
| - Intra-frequency measurement identity | 1 | |
| - Intra-frequency cell info list | | |

| - CHOICE intra-frequency cell removal | Remove no intra-frequency cells |
|--|---|
| - New intra-frequency cells | |
| - Intra-frequency cell id | 1 |
| - Cell info | 040 |
| - Cell individual offset - Reference time difference to cell | 0dB Not Present |
| - Read SFN Indicator | TRUE |
| - CHOICE mode | TDD |
| - Primary CCPCH info | |
| - Cell parameters ID | Reference clause 6.1 Default settings for cell |
| - Primary CCPCH TX power | Not Present |
| - Timeslot list | Not Present |
| - CHOICE TDD option | |
| - 3.84 Mcps TDD - Timeslot number | Not Present |
| - Burst type | Not Present |
| - 1.28 Mcps TDD | |
| - Timeslot number | Not Present |
| - Cell Selection and Re-selection info | Not Present |
| - Cell for measurement | Not Present |
| Intra-frequency measurement quantity Filter coefficient | 0 |
| - CHOICE mode | TDD |
| - Measurement quantity list | |
| - Measurement quantity | P-CCPCH RSCP |
| - 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 | |
| - SFN-SFN observed time difference | No report |
| reporting indicator | |
| - Cell synchronisation information reporting | TRUE |
| indicator | TOUE |
| - Cell identity reporting indicator - CHOICE mode | TRUE |
| - Timeslot ISCP reporting indicator | TDD FALSE |
| - Proposed TSGN reporting indicator | FALSE |
| - P-CCPCH RSCP reporting indicator | TRUE |
| - Pathloss reporting indicator | FALSE |
| | |
| - Reporting quantities for monitored set cells | |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting | No report |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator | |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting | No report FALSE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator | FALSE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting | |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator | FALSE TRUE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required | FALSE TRUE TDD FALSE FALSE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator | FALSE TRUE TDD FALSE FALSE TRUE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator | FALSE TRUE TDD FALSE FALSE TRUE FALSE TRUE FALSE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells | FALSE TRUE TDD FALSE FALSE TRUE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode | FALSE TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells | FALSE TRUE TDD FALSE FALSE TRUE FALSE TRUE FALSE |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode | FALSE TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria | FALSE TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC |
| - Reporting quantities for monitored set cells - SFN-SFN observed time difference reporting indicator - Cell synchronisation information reporting indicator - Cell identity reporting indicator - CHOICE mode - Timeslot ISCP reporting indicator - Proposed TSGN reporting required - P-CCPCH RSCP reporting indicator - Pathloss reporting indicator - Pathloss reporting indicator - Reporting quantities for detected set cells - Measurement reporting mode - Measurement Report Transfer Mode - Periodical Reporting / Event Trigger Reporting Mode - CHOICE report criteria - Intra-frequency measurement reporting | FALSE TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria | FALSE TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event | TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event Intra-frequency event identity | FALSE TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event Intra-frequency event identity Triggering condition1 Triggering condition2 | TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event Intra-frequency event identity Triggering condition1 Triggering condition2 Reporting Range | TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger 1g Not Present Not Present Not Present Not Present Not Present Not Present |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event Intra-frequency event identity Triggering condition1 Triggering condition2 Reporting Range cells forbidden to affect reporting range | TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger 1g Not Present |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event Intra-frequency event identity Triggering condition1 Triggering condition2 Reporting Range cells forbidden to affect reporting range W(optional in case of 1a,1b) | TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger 1g Not Present |
| Reporting quantities for monitored set cells SFN-SFN observed time difference reporting indicator Cell synchronisation information reporting indicator Cell identity reporting indicator CHOICE mode Timeslot ISCP reporting indicator Proposed TSGN reporting required P-CCPCH RSCP reporting indicator Pathloss reporting indicator Reporting quantities for detected set cells Measurement reporting mode Measurement Report Transfer Mode Periodical Reporting / Event Trigger Reporting Mode CHOICE report criteria Intra-frequency measurement reporting criteria Parameters required for each event Intra-frequency event identity Triggering condition1 Triggering condition2 Reporting Range cells forbidden to affect reporting range | TRUE TDD FALSE FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger 1g Not Present |

| - Reporting deactivation threshold | 3 |
|--|--|
| - Replacement activation threshold | Not Present |
| - Time to trigger | 640 |
| - Amount of reporting | 4 |
| - Reporting interval | 4000 |
| - Reporting cell status | |
| - CHOICE reported cells | Report cell within active set and/or monitored cells on used |
| | frequency |
| Maximum number of reported cells | 3 |
| - Inter-frequency measurement system | Not Present |
| information | |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system | Not Present |
| information | |
| - UE internal measurement system information | Not Present |

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

| FACH measurement occasion info | Not Present |
|--|-------------|
| Measurement control system information | |
| - Use of HCS | Not used |
| - Cell_selection_and_reselection_quality | CPICH RSCP |
| measure | |
| - Intra-frequency measurement system | |
| information | |
| - Intra-frequency measurement identity | |

- Intra-frequency cell info list
- CHOICE intra-frequency cell removal
- New intra-frequency cells
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s,n}
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s,n}
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s.n}
- Qoffset2s,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator

Remove no intra-frequency cells

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.2 (FDD)"

in clause 6.1 Not Present

FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

3

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.3 (FDD)"

in clause 6.1 Not Present

FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

0dB

Not Present

TRUE FDD

Refer to clause titled "Default settings for cell No.4 (FDD)"

in clause 6.1 Not Present **FALSE**

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1 Reference to table 6.1.1

Not Present

5

0dB

Not Present

TRUE

- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1s,n
- Qoffset2s.n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s.n}
- Qoffset2s.n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s,n}
- Qoffset2s.n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- CHOICE mode
- Qqualmin
- Qrxlevmin
- Cell for measurement
- Intra-frequency cell id
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffset1_{s.n}

FDD

Refer to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1

Not Present FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

6

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.6 (FDD)"

in clause 6.1 Not Present

0 dB

FALSE

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

7

0dB

Not Present

TRUE

FDD

Refer to clause titled "Default settings for cell No.7 (FDD)"

in clause 6.1 Not Present FALSE

0 dB

Not Present

Reference to table 6.1.1

Not Present

FDD

Reference to table 6.1.1

Reference to table 6.1.1

Not Present

8

0dB

Not Present TRUE

FDD

Refer to clause titled "Default settings for cell No.8 (FDD)"

in clause 6.1 Not Present FALSE

0 dB

| - Qoffset2s,n | Not Present |
|--|--|
| - Maximum allowed UL TX power | Reference to table 6.1.1 |
| - HCS neighbouring cell information | Not Present |
| - CHOICE mode | FDD |
| - Qqualmin | Reference to table 6.1.1 |
| - Qrxlevmin | Reference to table 6.1.1 |
| - Cell for measurement | Not Present |
| - Intra-frequency measurement quantity | Not i lesent |
| - Filter coefficient | 0 |
| - Measurement quantity | CPICH RSCP |
| - Intra-frequency reporting quantity for RACH | Not Present |
| Reporting | Not i resent |
| - Maximum number of reported cells on RACH | Not Present |
| - Reporting information for state CELL_DCH | THE THE STATE OF T |
| - Intra-frequency reporting quantity | |
| - Reporting quantities for active set cells | |
| - SFN-SFN observed time difference type | No report |
| - Cell synchronisation information reporting | FALSE |
| indicator | |
| - Cell identity reporting indicator | TRUE |
| - CHOICE mode | FDD |
| - CPICH Ec/N0 reporting indicator | FALSE |
| - CPICH RSCP reporting indicator | TRUE |
| - Pathloss reporting indicator | FALSE |
| - Reporting quantities for monitored set cells | |
| - SFN-SFN observed time difference type | No report |
| - Cell synchronisation information reporting | TRUĖ |
| indicator | |
| - Cell identity reporting indicator | TRUE |
| - CHOICE mode | FDD |
| - CPICH Ec/N0 reporting indicator | FALSE |
| - CPICH 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 |
| - Periodic Reporting/Event Trigger Reporting | Event trigger |
| Mode | |
| - CHOICE report criteria | Intra-frequency measurement reporting criteria |
| - Intra-frequency measurement reporting criteria | |
| - Parameters required for each event | 3 kinds |
| - Intra-frequency event identity | 1a |
| - Triggering condition 1 | Not Present |
| - Triggering condition 2 | Active set cells and monitored set cells |
| - Reporting Range | 5dB |
| - Cells forbidden to affect reporting range | Not Present |
| - W | 1.0 |
| - Hysteresis | 0.0 |
| - Threshold Used Frequency | Not Present |
| - Reporting deactivation threshold | 2 |
| - Replacement activation threshold | Not Present |
| - Time to trigger | 640 |
| - Amount of reporting | 4 |
| - Reporting call status | 0 |
| - Reporting cell status | Deport cell Within active act and/or manitered act and and |
| - CHOICE reported cell | Report cell Within active set and/or monitored set cells on |
| Maximum number of reported cells | used frequency |
| - Maximum number of reported cells | 3 |

| - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Time to trigger - Amount of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - W - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Time to trigger - Amount of reported - Reporting interval - Reporting Range - Cells forbidden to affect Repo | - Intra-frequency event identity | 1b |
|--|---|---|
| - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation - Maximum number of reported cells - Irriggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Replacement activation threshold - Replacement activation threshold - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system - Maximum number of reported cells - Inter-Frequency measurement system - Inter-RAT measurement system - Information | | |
| - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reported cell - Cells forbidden to affect Reporting range - Cells forbidden to affect Reporting range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Time to trigger - Amount of reported cells - Inter-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Time to trigger - Amount of reported cell - Reporting interval - Reporting interval - Reporting interval - Reporting interval - Reporting cell status - CHOICE reported cell - Inter-frequency measurement system - Inter-frequency measurement system - Inter-Fat measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-Fat measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-Fat measurement system information - Inter-RAT measurement system information - Inter-Fat measurement system information - Inter-Fat measurement system information - Inter-Fat measurement system information - Inter-RAT measurement system information - Inter-Fat measurement system informat | | |
| - Ceils forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Time to trigger - Amount of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Reporting interval - Amount of reporting - Amount of reporting - Reporting deactivation threshold - Replacement activation threshold - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system - Maximum number of reported cells - Inter-Frequency measurement system - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-frequency measurement system information - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Inter-frequency measurement syst | | |
| - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Replacement activation threshold - Reporting deactivation threshold - Replacement activation threshold - Reporting gerl status - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Intra-frequency event identity - Triggering condition 1 - Triggering condition 1 - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Replacement activation threshold - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Information | | |
| - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Reporting interval - Reporting cell status - CHOICE reported cell - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Reporting cell status - CHOICE reported cells - Inter-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system Information - Mot Present Not Present | , , , | |
| - Threshold Used Frequency Reporting deactivation threshold Replacement activation threshold Time to trigger Amount of reporting Reporting interval Reporting cell status - CHOICE reported cell Intra-frequency event identity Triggering condition 1 Triggering condition 2 Reporting Range Cells forbidden to affect Reporting range W Hysteresis Threshold Used Frequency Reporting deactivation threshold Replacement activation threshold Replacement activation threshold Replacement activation threshold Reporting cell status 1c Not Present | | |
| - Reporting deactivation threshold - Replacement activation threshold - Reporting terval - Amount of reporting - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Reporting deactivation threshold - Reporting cell status - CHOICE reported cells - Intra-frequency event identity - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Replacement activation threshold - Reporting deactivation threshold - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system Information - Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-RAT measurement system information - Information | • | |
| - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Reporting interval - Reporting interval - Reporting condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Replacement activation threshold - Reporting interval - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system in | | |
| - 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 - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reported cell - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Traffic volume measurement system information - Mot Present Not Present | | |
| - Amount of eporting - 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 - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Reporting deactivation threshold - Reporting to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information Not Present | • | |
| - 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 - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Mot Present Not Present | | * 1 * |
| - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Reporting interval - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cells - Inter-frequency measurement system information - Traffic volume measurement system information - Maximum number of reported cell - Maximum number of reported cell - Maximum number of reported cells - Not Present | | |
| - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - 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 - Inter-frequency measurement system information - Maximum neasurement system information - Maximum neasurement system information - Maximum neasurement system information - Report cell within active set and/or monitored set cells on used frequency - Not Present | | Not Present |
| - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information Used frequency 3 1c Not Present | | |
| - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - 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 - Inter-frequency measurement system information - Traffic volume measurement system information 3 1c Not Present | - CHOICE reported cell | |
| - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - Inter-mation - Inter-ma | | · |
| - Triggering condition 1 - Triggering condition 2 - Reporting Range - 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 - Inter-frequency measurement system information - Traffic volume measurement system information Not Present | • | |
| - Triggering condition 2 - Reporting Range - 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 - Inter-frequency measurement system information - Traffic volume measurement system information - Not Present | | |
| Reporting Range 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 Inter-Frequency measurement system Information Not Present | - Triggering condition 1 | Not Present |
| - 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 - Inter-frequency measurement system information - Inter-RAT measurement system information - Not Present | | Not Present |
| - 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 - Inter-frequency measurement system information - Traffic volume measurement system information - Intermation - Int | | |
| - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Inter-frequency measurement system information - Traffic volume measurement system information - Intermation - Interma | Cells forbidden to affect Reporting range | Not Present |
| - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Inter-frequency measurement system information - Traffic volume measurement system information - Inform | - W | Not Present |
| - 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 - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - Information - Information - Reporting the volume information information information - Report cell within active set and/or monitored set cells on used frequency - Not Present | - Hysteresis | |
| - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - Information - Information - Information - Information - Information - Reporting interval - 4000 - Report cell within active set and/or monitored set cells on used frequency - 3 - Not Present | - Threshold Used Frequency | Not Present |
| - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - Information - Traffic volume measurement system information informat | Reporting deactivation threshold | Not Present |
| - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - Inter-mation - Inter-ma | - Replacement activation threshold | 3 |
| - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - Intermation - Intermation - Traffic volume measurement system information - Intermation - In | - Time to trigger | 640 |
| - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information | - Amount of reporting | 4 |
| - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information | - Reporting interval | 4000 |
| - CHOICE reported cell - Maximum number of reported cells - Inter-frequency measurement system Information - Inter-RAT measurement system Information - Traffic volume measurement system Information - Inter-RAT measurement system Information - Traffic volume measurement system Information - Inter-RAT measurement system Inter-RAT measurement syste | | |
| - Maximum number of reported cells - Inter-frequency measurement system Information - Inter-RAT measurement system information - Traffic volume measurement system information Information used frequency 3 Not Present Not Present Not Present | | Report cell within active set and/or monitored set cells on |
| - Maximum number of reported cells - Inter-frequency measurement system Information Inter-RAT measurement system information Traffic volume measurement system Information Inf | • | |
| - Inter-frequency measurement system nformation Inter-RAT measurement system information Traffic volume measurement system information information Not Present Not Present Not Present | - Maximum number of reported cells | |
| nformation Inter-RAT measurement system information Traffic volume measurement system Information Not Present Not Present | | Not Present |
| Inter-RAT measurement system information Traffic volume measurement system Information Not Present Not Present | | |
| Traffic volume measurement system Not Present information | | Not Present |
| information | _ | |
| | | |
| | - UE internal measurement system information | Not Present |

Contents of System Information Block type 12 in connected mode (similar to SIB type11) (3.84 Mcps and 1.28 Mcps TDD)

| - FACH measurement occasion info | Not Present |
|--|--------------|
| - Measurement control system information | |
| - Use of HCS | Not used |
| - Cell_selection_and_reselection_quality | (no data) |
| measure | |
| - Intra-frequency measurement system | |
| information | |
| - Intra-frequency measurement identity | 1 |
| Intra-frequency measurement quantity | |
| - Filter coefficient | 0 |
| - CHOICE mode | TDD |
| - Measurement list | |
| - Measurement quantity | P-CCPCH RSCP |
| - Intra-frequency reporting quantity for RACH | Not Present |
| Reporting | |
| - Maximum number of reported cells on RACH | No report |
| Reporting information for state CELL_DCH | |
| Intra-frequency reporting quantity | |
| - Reporting quantities for active set cells | |
| SFN-SFN observed time difference | No report |
| reporting indicator | |
| - Cell synchronisation information reporting | TRUE |
| indicator | |

| 1 - 2 | I |
|--|--|
| - 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 | |
| - SFN-SFN observed time difference reporting | No report |
| indicator | |
| Cell synchronisation information reporting | FALSE |
| indicator | |
| - Cell identity reporting indicator | TRUE |
| - CHOICE mode | TDD |
| - Timeslot ISCP reporting indicator | FALSE |
| Proposal 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 cell status | |
| - CHOICE reported cells | Report cell within active set and/or monitored cells on used |
| | frequency |
| - Maximum number of reported cells | 3 |
| - Inter-frequency measurement system | Not Present |
| information | |
| - Inter-RAT measurement system information | Not Present |
| - Traffic volume measurement system | Not Present |
| information | |
| - UE internal measurement system information | Not Present |

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 | 7 |
| - T312 | 10 seconds |
| - N312 | 200 |
| - Capability update requirement | |
| - 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 System Information Block type 14 (3.84 Mcps TDD)

| - Individual Timeslot interference - Timeslot number - UL Timeslot Interference - Individual Timeslot interference - Timeslot number - UL Timeslot Interference - Timeslot number - UL Timeslot Interference - Timeslot number - UL Timeslot Interference - Individual Timeslot interference - Timeslot number - UL Timeslot Interference - Individual Timeslot interference - Timeslot number - UL Timeslot Interference - Individual Timeslot interference - Timeslot number - UL Timeslot Interference - Individual Timeslot interference - Timeslot number - UL Timeslot Interference - Individual Timeslot i | - Individual Timeslot interference list | |
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| - Individual Timeslot interference - Timeslot number 13 | - Timeslot number | 12 |
| - Timeslot number 13 | - UL Timeslot Interference | -90 dbm |
| | - Individual Timeslot interference | |
| - UL Timeslot Interference -90 dbm | - Timeslot number | 13 |
| | - UL Timeslot Interference | -90 dbm |
| - Individual Timeslot interference | - Individual Timeslot interference | |
| - Timeslot number 14 | - Timeslot number | 14 |
| - UL Timeslot Interference -90 dbm | - UL Timeslot Interference | -90 dbm |
| - Expiration Time Factor Not Present (MD "1") | - 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 | liffsi |

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 | |
| - PLMN identity | Set to the same value as indicated in MIB |
| - 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 Flesent |
| - 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 | 1.0 |
| - 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 |
| | 100 |
| - Number of TB and TTI List | 4 |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| - RLC size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| | |
| - CHOICE Logical Channel List | ALL |
| - 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 | 10 |
| | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor, reference TFC id = 0 |
| | |
| - Power offset Pp-m | -5 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - Gain factor ßc | 10 |
| - Gain factor ßd | 15 |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | -5dB |
| | - CAD |
| - PRACH partitioning | |
| - Access Service Class | Not Brosset |
| - 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 |
| - ASC Setting | Not Present |
| | THOSE FOODING |
| - ASC Setting | EDD |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#3) |
| - Available signature End Index | 7 (ASC#3) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| • | • |

| - ASC Setting | |
|---|------------------------------------|
| - CHOICE mode | FDD |
| Available signature Start Index | 0 (ASC#5) |
| Available signature End Index | 7 (ASC#5) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#7) |
| - Available signature End Index | 7 (ASC#7) |
| - Assigned Sub-channel Number | '1111'B |
| - Persistence scaling factor | 0.0 (/ 0.00 (/0) |
| - 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 Persistence scaling factor | 0.9 (for ASC#5) 0.9 (for ASC#6) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table | 0.5 (101 7100#1) |
| - 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) |
| - Primary CPICH DL 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 |
| - NB01max - AICH info | 10 slot |
| - Channelisation code | 3 |
| - STTD indicator | FALSE |
| - AICH transmission timing | 1 |
| - Secondary CCPCH system information | (For 2 SCCPCHs) |
| - Secondary CCPCH info | (SCCPCH for standalone PCH) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 128 |
| - Code number | 4 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | FALSE |
| - Fixed or Flexible position | Fixed |
| - Timing offset | 30 |
| - TFCS | |
| - Normal - TFCI Field 1 information | |
| - CHOICE TFCS representation | complete |
| - TFCS addition information | Complete |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (PCH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 240 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |
| Number of Transport blocks CHOICE Mode | 1 EDD |
| - CHOICE Mode - CHOICE Logical Channel List | FDD ALL |
| • C.EC.IC.E Opical Channol Fiet | |

| - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - Transport Channel Identity - CRC size - Transport Channel Identity - CRC size - Transport Channel Identity - CRC size - Semi-static Transport Channel Identity - CRC size - Transport Channel Identity - CRC size - Supreading factor - Secondary Scrambling code - Serondary CCPCH Info - Secondary Scrambling code - Serondary Componition - Formation - Formation - Formation - Power offset Information | 1 | 1 |
|--|--|------------------------------|
| - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info - Channelisation code - Number of PI per frame - STD1 indicator - Secondary Scrambling code - STTD1 indicator - Secondary Scrambling code - STTD1 indicator - Code number - Filot symbol existence - TFCI oxistence | Semi-static Transport Format information | |
| - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info - Channelisation code - Number of PI per frame - STDI indicator - Secondary Scrambling code - STTDI indicator - Socondary Scrambling code - STTDI indicator - Code number - Filed systence - TFCI existence - TFCI oxige finity - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - Power offset information - RC Size - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - Number of Transport thornet information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - CHOICE Mode - CHOICE Transport channel type - Openamic Transport format information - Transport Channel coding - Coding Rate - Rate matching attribute - CRC size - CHOICE Transport format information - RLC Size - CHOICE Transport format information - Transport formation - Transport format infor | - Transmission time interval | 10 ms |
| - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH indic - Channelisation code - Number of Piper frame - STTD indicator - Secondary CCPCH info - Secondary Scrambling code - STTD indicator - Power offset information - FICS addition information - CHOICE TFCS representation - TFCs addition information - CHOICE TFC Size - OTFC information - CHOICE CTFC Size - OTFC information - CTFC information - CHOICE Transport format information - TRO-Ave offset information - CTFC information - CHOICE Transport format information - TRO-Ave offset information - CTFC information - CHOICE Transport format information - Transmission time interval - Power offset information - Transmission time interval - Number of Transport blocks - Number of Transport blocks - Number of Transport format information - Transmission time interval - Type of channel clight - CCRC Size - CHOICE Mode - CHOICE Transport format information - RC Size - CHOICE Mode - CHOICE Transport format information - Transmission time interval - Type of channel clight - CTFS - CHOICE Transport format information - Transport of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Logical Channel List - Number of T | | |
| - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH Info - Channelisation code - Number of Pi per frame - Secondary CCPCH info - Secondary Scrambling code - STTD indicator - Code number - Pict symbol existence - TFCI size - CTFC information - CHOICE TFCS representation - TFCI seddition information - CHOICE TFCS Size - CTFC information - Power offset information - P | , ,, | |
| - CRC size - Transport Channel Identity - Code number - Pilot symbol existence - Fixed or Flexible position - Trecs addition information - Trecs Addition information - Trecs Addition information - Trecs Addition information - CHOICE Trecs representation - Trecs Addition information - CTFC information - CTFC information - Power offset information - OTFC information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Power offset information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Power offset information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Power offset information - Trecs Addition information - T | | |
| - CRC size - Transport Channel Identity - Code number - Pilot symbol existence - Fixed or Flexible position - Trecs addition information - Trecs Addition information - Trecs Addition information - Trecs Addition information - CHOICE Trecs representation - Trecs Addition information - CTFC information - CTFC information - Power offset information - OTFC information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Power offset information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Power offset information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Trecs Addition information - Power offset information - Trecs Addition information - T | - Rate matching attribute | 230 |
| - Transport Channel Identity - CTCH indicator - PICH Info - Channelisation code - Number of Pi per frame - STTD indicator - Secondary CCPCH info - FALSE | | 16 hit |
| - CTCH indicator - PICH info | | 1 0 000 |
| PICH info Channelisation code 1. Number of PI per frame STID indicator Secondary CCPCH info Secondary Scarmbling code STID indicator Secondary scarmbling code STID indicator Spreading factor Spreading factor Spreading factor Fici existence Fixed or Flexible position Timing offset TFCI existence Fixed or Flexible position Timing offset TFCS Normal TFCI Field 1 information CHOICE TFCS representation TFCS addition information CHOICE TFC Size CTFC information CHOICE TFC Size CTFC information CHOICE TFC Size CTFC information CTFC in | 1 | |
| - Channelisation code - Number of Tansport Idans - SITTD indicator - Secondary scrambling code - STITD indicator - Spreading factor - Code number - Filed symbol existence - TirCI existence - T | - CTCH indicator | FALSE |
| - Channelisation code - Number of Tansport Idans - SITTD indicator - Secondary scrambling code - STITD indicator - Spreading factor - Code number - Filed symbol existence - TirCI existence - T | - PICH info | |
| - Number of PI pet frame - STTD indicator - Secondary CCPCH info - Secondary CCPCH info - Secondary Scrambling code - STTD indicator - Spreading factor - Spreading factor - Code number - Pilot symbol existence - Fixed or Flexible position - Timing offset - Tirring offset - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - TFCG addition information - CHOICE TFC Size - CTFC information - Power offset information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset informa | - Channelisation code | 2 |
| - STTD indicator - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Filed symbol existence - TFCI existence - TFCS - Normal - TTCI field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - TFCS addition information - Power offset information - Power offset information - CTFC information - TFC information - FACH/PCH information - RLC Size - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List - Semi-static Transport channel type - Crack size - Transport Channel List - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Transport Channel List - Sumber of TB and TTI List - Number of Transport blocks - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Transport Channel List - Number of TB and TTI List - Number of TB and TTI List - Number of Transport blocks - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Transport Channel List - Number of TB and TTI List - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Transport channel List - Number of TB and TTI List - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport Sumber of Trans | | |
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| - 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 Mode - CHOICE Logical Channel List 16 bit 13 (for FACH) Common transport channels 260 260 270 360 360 40 570 60 770 770 770 770 770 770 | | |
| - 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 Mode - CHOICE Logical Channel List 16 bit 13 (for FACH) Common transport channels 260 260 270 360 360 40 570 60 770 770 770 770 770 770 | - Rate matching attribute | 220 |
| - 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 Mode - CHOICE Logical Channel List 13 (for FACH) FALSE (FACH) Common transport channels 360 360 1 FDD ALL | | |
| - 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 Mode - CHOICE Logical Channel List FALSE (FACH) Common transport channels 360 0 1 FDD ALL | | |
| - 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 (FACH) Common transport channels 360 0 1 FDD ALL | | |
| - 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 Common transport channels 360 0 1 FDD ALL | | |
| - 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 Common transport channels 360 0 1 FDD ALL | - TFS | (FACH) |
| - 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 - Salar Sala | | |
| - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List 360 0 FDD ALL | | Common transport originies |
| - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Logical Channel List - ALL | | |
| - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List 0 1 FDD ALL | - RLC Size | 360 |
| - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List 0 1 FDD ALL | - Number of TB and TTI List | |
| - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List ALL | | 10 |
| - CHOICE Mode FDD - CHOICE Logical Channel List ALL | | |
| - CHOICE Logical Channel List ALL | | |
| | | 1 |
| | - CHOICE Logical Channel List | ALL |
| | | |
| | 1 Com otatio Francisco Comacimornation | I |

| - 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 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 | THOU I TOOGHT |
| | |
| - 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 | 1.0 |
| - 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 | ALL |
| - RLC size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 20 ms |
| | Convolutional |
| - Type of channel coding | |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 150 |
| - CRC size | 16 |
| - RACH TFCS | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | Complete |
| | 0 h :4 |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor, reference TFC id=0 |
| - Power offset Pp-m | -5 dB |
| - CTFC information | 1 |
| - Power offset information | · |
| - CHOICE Gain Factors | Signalled Gain Factor |
| | |
| - Gain factor &c | 10 |
| - Gain factor ßd | 15 |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | -5dB |
| - PRACH partitioning | |
| - Access Service Class | |
| - ASC Setting | Not Present |
| - ASC Setting | 110111100011 |
| - CHOICE mode | FDD |
| | |
| | |
| - Available signature Start Index | 0 (ASC#1) |
| - Available signature End Index | 7 (ASC#1) |
| Available signature End IndexAssigned Sub-channel Number | |
| - Available signature End Index - Assigned Sub-channel Number - ASC Setting | 7 (ASC#1) |
| Available signature End IndexAssigned Sub-channel Number | 7 (ASC#1) '1111'B |
| Available signature End IndexAssigned Sub-channel NumberASC SettingASC Setting | 7 (ASC#1) '1111'B Not Present |
| - Available signature End Index - Assigned Sub-channel Number - ASC Setting - ASC Setting - CHOICE mode | 7 (ASC#1) '1111'B Not Present FDD |
| - Available signature End Index - Assigned Sub-channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index | 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) |
| - Available signature End Index - Assigned Sub-channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index | 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3) |
| - Available signature End Index - Assigned Sub-channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-channel Number | 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3) '1111'B |
| - Available signature End Index - Assigned Sub-channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index | 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3) |

| | - CHOICE mode | FDD |
|---|---|-----------------------------|
| | - Available signature Start Index | 0 (ASC#5) |
| | | |
| | - Available signature End Index | 7 (ASC#5) |
| | Assigned Sub-channel Number | '1111'B |
| | - ASC Setting | Not Present |
| | - ASC Setting | |
| | - CHOICE mode | FDD |
| | | |
| | - Available signature Start Index | 0 (ASC#7) |
| | Available signature End Index | 7 (ASC#7) |
| | Assigned Sub-channel Number | '1111'B |
| | - Persistence scaling factor | |
| | - 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) |
| | | |
| | - Persistence scaling factor | 0.9 (for ASC#7) |
| | - AC-to-ASC mapping table | Not present |
| | - Primary CPICH DL TX power | 31 |
| | - Constant value | -10 |
| 1 | | · · |
| 1 | - PRACH power offset | מאס |
| 1 | - Power Ramp Step | 3dB |
| 1 | - Preamble Retrans Max | 4 |
| 1 | - RACH transmission parameters | |
| 1 | - Mmax | 2 |
| | | |
| | - NB01min | 3 slot |
| | - NB01max | 10 slot |
| | - AICH info | |
| | - Channelisation code | 3 |
| | - STTD indicator | FALSE |
| | | |
| | - AICH transmission timing | 1 |
| | - Secondary CCPCH system information | (For 2 SCCPCHs) |
| | - Secondary CCPCH info | (SCCPCH for standalone PCH) |
| | - Secondary scrambling code | Not Present |
| | - STTD indicator | FALSE |
| | | |
| | - Spreading factor | 128 |
| | - Code number | 4 |
| | Pilot symbol existence | FALSE |
| | - TFCI existence | FALSE |
| | - Fixed or Flexible position | Fixed |
| | | |
| | - Timing offset | 30 |
| | - TFCS | |
| | - Normal | |
| | - TFCI Field 1 information | |
| 1 | - CHOICE TFCS representation | Complete |
| 1 | | Complete |
| 1 | - TFCS addition information | |
| 1 | - CHOICE CTFC Size | 2 bit |
| ļ | - CTFC information | 0 |
| 1 | - Power offset information | Not Present |
| 1 | - CTFC information | 1 |
| 1 | | • |
| 1 | - Power offset information | Not Present |
| 1 | - FACH/PCH information | |
| 1 | - TFS | (PCH) |
| J | - CHOICE Transport channel type | Common transport channels |
| 1 | - Dynamic Transport format information | |
| | | |
| 1 | - RLC Size | 240 |
| 1 | Number of TB and TTI List | |
| 1 | - Number of Transport blocks | 0 |
| 1 | - Number of Transport blocks | 1 |
| 1 | | |
| 1 | - CHOICE Mode | FDD |
| ļ | - CHOICE Logical Channel List | ALL |
| ļ | - Semi-static Transport Format information | |
| 1 | - Transmission time interval | 10 ms |
| 1 | - Type of channel coding | Convolutional |
| 1 | | |
| 1 | - Coding Rate | 1/2 |
| 1 | Rate matching attribute | 230 |
| J | - CRC size | 16 bit |
| 1 | - Transport Channel Identity | 12 (for PCH) |
| 1 | - CTCH indicator | FALSE |
| 1 | C i Oi i ilidioatoi | I ALOL |
| | | |

| - PICH info | |
|--|------------------------------|
| - Channelisation code | 2 |
| - Number of PI per frame | 18 |
| - STTD indicator | FALSE |
| - Secondary CCPCH info | |
| | (SCCPCH including two FACHs) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE |
| - Fixed or Flexible position | Flexible |
| - Timing offset | 0 |
| - TFCS | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | Complete |
| - CHOICE CTFC Size | 4 bit |
| - CTFC information | 0 |
| | * |
| - Power offset information | Not Present |
| - CTFC information | Not Describ |
| - 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 |
| - CTFC information | 5 |
| 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 | 100 |
| - Number of Transport blocks | 0 |
| - Number of Transport blocks | 1 |
| • | |
| - Number of Transport blocks | |
| - Number of Transport blocks | 3 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| - Semi-static Transport Format information | 40 |
| - 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 | 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 |
| | |

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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

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 |
| | Not Flesent |
| - 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 | 1.0 |
| - 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 |
| | 100 |
| - Number of TB and TTI List | 4 |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| - RLC size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| | ' |
| - CHOICE Logical Channel List | ALL |
| - 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 | 10 |
| | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor, reference TFC id=0 |
| | |
| - Power offset Pp-m | -5 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - Gain factor ßc | 10 |
| - Gain factor ßd | 15 |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | -5dB |
| | oub . |
| - PRACH partitioning | |
| - Access Service Class | Not Brosset |
| - 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 |
| - ASC Setting | Not Present |
| | THOSE FOR THE STATE OF THE STAT |
| - ASC Setting | FDD |
| - CHOICE mode | FDD (ADD (ID) |
| - Available signature Start Index | 0 (ASC#3) |
| - Available signature End Index | 7 (ASC#3) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| - | · |

| - ASC Setting | |
|--|-----------------------------|
| - CHOICE mode | FDD |
| Available signature Start Index | 0 (ASC#5) |
| Available signature End Index | 7 (ASC#5) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#7) |
| - Available signature End Index | 7 (ASC#7) |
| - Assigned Sub-channel Number | '1111'B |
| - Persistence scaling factor | 2.2 (4 . 1.20 (12) |
| - 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) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table | 6 (400 0) |
| - AC-to-ASC mapping | 6 (AC0-9) |
| - AC-to-ASC mapping - AC-to-ASC mapping | 5 (AC10) 4 (AC11) |
| | |
| - AC-to-ASC mapping - AC-to-ASC mapping | 3 (AC12) 2 (AC13) |
| - AC-to-ASC mapping - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - Primary CPICH DL TX power | 31 |
| - Constant value | -10 |
| - PRACH power offset | 10 |
| - Power Ramp Step | 3dB |
| - Preamble Retrans Max | 4 |
| - RACH transmission parameters | · |
| - Mmax | 2 |
| - NB01min | 3 slot |
| - NB01max | 10 slot |
| - AICH info | |
| - Channelisation code | 3 |
| - STTD indicator | FALSE |
| - AICH transmission timing | 0 |
| - Secondary CCPCH system information | (For 2 SCCPCHs) |
| - Secondary CCPCH info | (SCCPCH for standalone PCH) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 128 |
| - Code number | 4 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | FALSE |
| - Fixed or Flexible position | Fixed |
| - Timing offset | 30 |
| - TFCS | |
| - Normal | |
| - TFCI Field 1 information | lete |
| - CHOICE TFCS representation - TFCS addition information | complete |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - FACH/PCH information | Not i room |
| - TFS | (PCH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 240 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 0 |
| | 1 |
| - Number of Transport blocks | |
| - Number of Transport blocks - CHOICE Mode | FDD |
| | |

| - 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 | |
| - Channelisation code | 2 |
| - Number of PI per frame | 18 |
| - STTD indicator | FALSE |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 128 |
| - Code number | 5 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE |
| - Fixed or Flexible position | Flexible |
| - Timing offset | 0 |
| - TFCS | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | complete |
| - TFCS addition information | O hit |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 Not Present |
| - Power offset information - CTFC information | Not Present |
| | |
| - Power offset information - CTFC information | Not Present |
| - Power offset information | Not Present |
| - Fower onser information | ואטג רופסכווג |

| - 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 |
| - 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 | 1/3 |
| - 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 |
| 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 | 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 | THOU I TOOGHT |
| | |
| - 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 | 1.0 |
| - 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 |
| | ALL |
| - CHOICE Logical Channel List | |
| - RLC size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| - Semi-static Transport Format information | |
| - Transmission time interval | 20 ms |
| | Convolutional |
| - Type of channel coding | |
| - Coding Rate | 1/2 |
| - Rate matching attribute | 150 |
| - CRC size | 16 |
| - RACH TFCS | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | Complete |
| | 0 h :4 |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor reference TFC id=0 |
| - Power offset Pp-m | -5 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| | |
| - Gain factor &c | 10 |
| - Gain factor ßd | 15 |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | -5dB |
| - PRACH partitioning | |
| - Access Service Class | |
| - ASC Setting | Not Present |
| - ASC Setting | THOU TOOGHE |
| - CHOICE mode | FDD |
| | |
| - Available signature Start Index | 0 (ASC#1) |
| Available signature End Index | 7 (ASC#1) |
| | 1 (44441) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| | |
| - ASC Setting - ASC Setting | Not Present |
| - ASC Setting- ASC Setting- CHOICE mode | Not Present FDD |
| - ASC Setting- ASC Setting- CHOICE mode- Available signature Start Index | Not Present FDD 0 (ASC#3) |
| - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index | Not Present FDD 0 (ASC#3) 7 (ASC#3) |
| - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-channel Number | Not Present FDD 0 (ASC#3) 7 (ASC#3) '1111'B |
| - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index | Not Present FDD 0 (ASC#3) 7 (ASC#3) |

| - CHOICE mode | FDD |
|--|--|
| - Available signature Start Index | 0 (ASC#5) |
| | |
| - Available signature End Index | 7 (ASC#5) |
| - Assigned Sub-channel Number | (1111'B |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#7) |
| - Available signature End Index | 7 (ASC#7) |
| - Assigned Sub-channel Number | '1111'B |
| | |
| - Persistence scaling factor | 0.0 (for 0.00#2) |
| - 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) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table | Not present |
| - Primary CPICH DL TX power | 31 |
| - Constant value | -10 |
| | -10 |
| - PRACH power offset | O-ID |
| - Power Ramp Step | 3dB |
| - Preamble Retrans Max | 4 |
| - RACH transmission parameters | |
| - Mmax | 2 |
| - NB01min | 3 slot |
| - NB01max | 10 slot |
| - AICH info | |
| - Channelisation code | 3 |
| - STTD indicator | FALSE |
| | 0 |
| - AICH transmission timing | U |
| - Secondary CCPCH system information | (000D0H; |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE |
| - Fixed or Flexible position | Flexible |
| - Timing offset | 90 |
| - TFCS | |
| - Normal | |
| | |
| - TFCI Field 1 information | Complete |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | 41.9 |
| - 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 |
| | Not Dropont |
| - Power offset information | i Noi Preseni |
| - Power offset information | Not Present |
| - CTFC information | 4 |
| - CTFC information - Power offset information | 4 Not Present |
| CTFC informationPower offset informationCTFC information | 4 Not Present 5 |
| CTFC information Power offset information CTFC information Power offset information | 4 Not Present |
| - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information | 4 Not Present 5 Not Present |
| - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS | 4 Not Present 5 Not Present (FACH) |
| - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type | 4 Not Present 5 Not Present |
| - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information | 4 Not Present 5 Not Present (FACH) Common transport channels |
| - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size | 4 Not Present 5 Not Present (FACH) |
| - 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 | 4 Not Present 5 Not Present (FACH) Common transport channels |
| - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size | 4 Not Present 5 Not Present (FACH) Common transport channels |
| - 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 | 4 Not Present 5 Not Present (FACH) Common transport channels 168 0 1 |
| - 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 | 4 Not Present 5 Not Present (FACH) Common transport channels 168 0 1 2 |
| - 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 | 4 Not Present 5 Not Present (FACH) Common transport channels 168 0 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 | 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 |
| 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 | 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 | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 3 |
| - SIB_REP | 128 |
| - SIB_POS | 26 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 5 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 1 |
| - SIB_REP | 128 |
| - SIB_POS | 22 |
| - SIB_POS offset info | Not Present – use default |
| - SIB type SIBs only | System Information Type 7 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNT | 2 |

| 1 | 1 |
|--------------------------|----------------------------|
| - SIB_REP | 128 |
| - SIB_POS | 58 |
| - SIB_POS offset info | |
| - SIB_OFF | 2 |
| - SIB type SIBs only | System Information Type 11 |
| - Scheduling information | |
| - CHOICE Value tag | Cell Value tag |
| - Cell Value tag | 1 |
| - SEG_COUNŤ | 2 |
| - SIB REP | 128 |
| - SIB POS | 106 |
| - SIB POS offset info | |
| - SIB OFF | 2 |
| - SIB type SIBs only | System Information Type 12 |
| - Scheduling information | 3,11 |
| - CHOICE Value tag | PLMN Value tag |
| - PLMN Value tag | 1 |
| - SEG COUNT | 6 |
| - SIB_REP | 128 |
| - SIB POS | 74 |
| - SIB POS offset info | |
| - SIB_OFF | 2 |
| - SIB OFF | 2 |
| - SIB_OFF | 8 |
| - SIB_OFF | 4 |
| - SIB OFF | 2 |
| - SIB type SIBs only | System Information Type 16 |

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 Flesent |
| - 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 | 1.0 |
| - 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 | 100 |
| | 4 |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| - RLC size | 360 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | 1 |
| - CHOICE Mode | FDD |
| | ' |
| - CHOICE Logical Channel List | ALL |
| - 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 | 10 |
| | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | |
| - CHOICE Gain Factors | Computed Gain Factor reference TFC id=0 |
| | |
| - Power offset Pp-m | -5 dB |
| - CTFC information | 1 |
| - Power offset information | |
| - CHOICE Gain Factors | Signalled Gain Factor |
| - Gain factor ßc | 10 |
| - Gain factor ßd | 15 |
| - Reference TFC ID | 0 |
| - Power offset Pp-m | -5dB |
| | oub . |
| - PRACH partitioning | |
| - Access Service Class | Not Brosset |
| - 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 |
| - ASC Setting | Not Present |
| | THOSE FOR THE STATE OF THE STAT |
| - ASC Setting | FDD |
| - CHOICE mode | FDD (ADD (ID) |
| - Available signature Start Index | 0 (ASC#3) |
| - Available signature End Index | 7 (ASC#3) |
| - Assigned Sub-channel Number | '1111'B |
| - ASC Setting | Not Present |
| - | · |

| - ASC Setting | |
|---|-----------------------------|
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#5) |
| - Available signature End Index | 7 (ASC#5) |
| - Assigned Sub-channel Number | (1111'B |
| - ASC Setting | Not Present |
| - ASC Setting | |
| - CHOICE mode | FDD |
| - Available signature Start Index | 0 (ASC#7) |
| - Available signature End Index | 7 (ASC#7) |
| - Assigned Sub-channel Number | '1111'B |
| - Persistence scaling factor | 0.0 (f 0.00 (10) |
| - 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) |
| - Persistence scaling factor | 0.9 (for ASC#7) |
| - AC-to-ASC mapping table - AC-to-ASC mapping | 6 (0000) |
| | 6 (AC0-9) |
| - AC-to-ASC mapping - AC-to-ASC mapping | 5 (AC10) 4 (AC11) |
| - AC-to-ASC mapping - AC-to-ASC mapping | ` ' |
| - AC-to-ASC mapping - AC-to-ASC mapping | 3 (AC12) 2 (AC13) |
| - AC-to-ASC mapping - AC-to-ASC mapping | 1 (AC14) |
| - AC-to-ASC mapping | 0 (AC15) |
| - Primary CPICH DL TX power | 31 |
| - Constant value | -10 |
| - PRACH power offset | 10 |
| - Power Ramp Step | 3dB |
| - Preamble Retrans Max | 4 |
| - RACH transmission parameters | 7 |
| - Mmax | 2 |
| - NB01min | 3 slot |
| - NB01max | 10 slot |
| - AICH info | |
| - Channelisation code | 3 |
| - STTD indicator | FALSE |
| - AICH transmission timing | 0 |
| - Secondary CCPCH system information | (For 3 SCCPCHs) |
| - Secondary CCPCH info | (SCCPCH for standalone PCH) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 128 |
| - Code number | 6 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | FALSE |
| - Fixed or Flexible position | Fixed |
| - Timing offset | 30 |
| - TFCS | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | |
| - CHOICE CTFC Size | 2 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | Not Present |
| - FACH/PCH information | (DOLI) |
| - TFS | (PCH) |
| - CHOICE Transport channel type | Common transport channels |
| | |
| - Dynamic Transport format information | 240 |
| - Dynamic Transport format information - RLC Size | 240 |
| Dynamic Transport format informationRLC SizeNumber of TB and TTI List | |
| Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks | 0 |
| - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks | 0 1 |
| Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks | 0 |

| 1 | 1 |
|---|---|
| - 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 |
| | FALSE |
| - PICH info | |
| - Channelisation code | 2 |
| - Number of PI per frame | 18 |
| - STTD indicator | FALSE |
| | |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 1 |
| | |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE |
| - Fixed or Flexible position | Flexible |
| - Timing offset | 0 |
| - TFCS | |
| | |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition 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 |
| - CTFC information | 5 |
| Power offset information | Not Present |
| - FACH/PCH information | |
| - TFS | (FACH) |
| 1 | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | |
| - RLC Size | 168 |
| - Number of TB and TTI List | |
| - Number of Transport blocks | |
| <u> </u> | 0 |
| - Number of Transport blocks | |
| Number of Transport blocks | 2 |
| - Number of Transport blocks | 3 |
| - CHOICE Mode | FDD |
| - CHOICE Logical Channel List | ALL |
| | 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 | 13 (for FACH) |
| - CTCH indicator | FALSE |
| - TFS | (FACH) |
| · · · · | |
| - CHOICE Transport channel type | |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | Common transport channels |
| - Dynamic Transport format information - RLC Size | |
| - Dynamic Transport format information | Common transport channels |
| Dynamic Transport format informationRLC SizeNumber of TB and TTI List | Common transport channels |
| Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks | Common transport channels 360 0 |
| Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks | Common transport channels 360 0 1 |
| Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks CHOICE Mode | Common transport channels 360 0 1 FDD |
| 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 | Common transport channels 360 0 1 |
| Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks CHOICE Mode | Common transport channels 360 0 1 FDD |

| Transmission time interval | 10 ms |
|---|--|
| Transmission time interval Type of channel coding | Turbo |
| | 130 |
| - Rate matching attribute - CRC size | 16bit |
| | |
| - Transport Channel Identity - CTCH indicator | 14 (for FACH) |
| | FALSE |
| - Secondary CCPCH info | (SCCPCH including two FACHs) |
| - Secondary scrambling code | Not Present |
| - STTD indicator | FALSE |
| - Spreading factor | 64 |
| - Code number | 2 |
| - Pilot symbol existence | FALSE |
| - TFCI existence | TRUE |
| - Fixed or Flexible position | Flexible |
| - Timing offset - TFCS | 90 |
| - Normal | |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS addition information | Complete |
| - CHOICE CTFC Size | 4 bit |
| - CTFC information | 0 |
| - Power offset information | Not Present |
| - CTFC information | 1 |
| - Power offset information | 1 . |
| - CTFC information | Not Present |
| - Power offset information | Not Present |
| - CTFC information | 3 |
| - Power offset information | Not Present |
| - CTFC information | 4 |
| - Power offset information | Not Present |
| - CTFC information | 5 |
| - Power offset information | Not Present |
| - FACH/PCH information | Not i resent |
| - TFS | (FACH) |
| - CHOICE Transport channel type | Common transport channels |
| - Dynamic Transport format information | Common transport snarmois |
| - RLC Size | 168 |
| - Number of TB and TTI List | 100 |
| - Number of Transport blocks | 0 |
| - Number of Transport blocks | 1 |
| - Number of Transport blocks | 2 |
| - Number of Transport blocks | 3 |
| - 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 |
| Coding Rate Rate matching attribute | |
| | 1/2 |
| - Rate matching attribute | ½ 220 |
| Rate matching attributeCRC size | 1/2 220 16 bit 16 (for FACH) FALSE |
| Rate matching attribute CRC size Transport Channel Identity CTCH indicator TFS | 1½ 220 16 bit 16 (for FACH) FALSE (FACH) |
| Rate matching attribute CRC size Transport Channel Identity CTCH indicator TFS CHOICE Transport channel type | 1/2 220 16 bit 16 (for FACH) FALSE |
| Rate matching attribute CRC size Transport Channel Identity CTCH indicator TFS CHOICE Transport channel type Dynamic Transport format information | 1/2 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels |
| Rate matching attribute CRC size Transport Channel Identity CTCH indicator TFS CHOICE Transport channel type Dynamic Transport format information RLC Size | 1½ 220 16 bit 16 (for FACH) FALSE (FACH) |
| 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 | 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels |
| 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 | 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 |
| 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 | 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 |
| 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 Mode | ½ 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD |
| 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 Mode CHOICE Logical Channel List | 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 |
| 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 Mode CHOICE Logical Channel List Semi-static Transport Format information | 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL |
| 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 Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval | 1/2 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL 10 ms |
| 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 Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding | 1/2 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL 10 ms Turbo |
| 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 Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding Rate matching attribute | ½ 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL 10 ms Turbo 130 |
| 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 Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding Rate matching attribute CRC size | 1½ 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL 10 ms Turbo 130 16bit |
| 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 Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding Rate matching attribute | 1½ 220 16 bit 16 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL 10 ms Turbo 130 |

| - CBS DRX Level 1 information | Not Present |
|-------------------------------|-------------|
|-------------------------------|-------------|

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 |

Default settings for cell No.1 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 0 |

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 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 |

Default settings for cell No.2 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 4 |

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 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 |

Default settings for cell No.3 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 8 |

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 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 |

Default settings for cell No.4 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 12 |

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.1 with the following exceptions:

| Cell identity | 0000 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 |

Default settings for cell No.5 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 114 |

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.1 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 6.10 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 | 350 |

Default settings for cell No.6 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 119 |

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 |

Default settings for cell No.7 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 123 |

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 |

Default settings for cell No.8 (TDD):

| 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 CCPCH info | |
| - Cell parameters ID | 127 |

6.1.5 Reference Radio Conditions for signalling test cases only (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 | -80 |
| 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 type | | Serving cell | Suitable neighbour cell |
| UTRA RF Channel Number | | Channel 1 | Channel 1 |
| Qqualmin | dB | -24 | -24 |
| Qrxlevmin | dBm | -80 | -80 |
| UE_TXPWR_MAX_RACH | dBm | 21 | 21 |
| CPICH Ec (see notes 1 and 2) | dBm/3.84 | -60 | -70 |
| | 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: 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 | -80 |
| 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 | -80 |
| UE_TXPWR_MAX_RACH | dBm | 21 |
| CPICH_Ec | dBm/3.84 | ≤ -122 |
| | 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 6.1.5: Default power levels of physical channels relative to CPICH_Ec

| Parameter | Unit | Level Idle mode | Level Connected mode |
|---|------|--------------------|-------------------------|
| DPCH_Ec | dB | (NOTE) | -5 |
| PCCPCH_Ec | dB | | -2 |
| SCCPCH_Ec | dB | -2 | |
| AICH_Ec | dB | -5 | |
| SCH_Ec | dB | -2 | |
| PICH_Ec | dB | | -5 |
| 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 only (TDD)

<FFS>

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 loop mode | | Closed loop |
|---------|----------------|------|-------------|
| | TSTD | STTD | Mode |
| P-CCPCH | - | X | _ |
| SCH | Х | - | - |
| S-CCPCH | _ | Х | _ |
| DPCH | - | X | - |
| PICH | _ | X | _ |
| AICH | _ | Х | _ |

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

| Physical channel type | Open loop TxDiversity | | Closed loop TxDiversity |
|-----------------------|-----------------------|---|-------------------------|
| | TSTD SCTD | | |
| P-CCPCH | _ | Х | _ |
| SCH | Х | - | _ |
| DPCH | _ | - | X |

6.7.2.2.2 1.28 Mcps option

| Physical channel type | Open loop TxDiversity | | Closed loop TxDiversity |
|-----------------------|-----------------------|------------|-------------------------|
| | TSTD | Block STTD | |
| P-CCPCH | X | X | - |
| DwPCH | X | - | _ |
| DPCH | Χ | - | X |

6.8 Compressed Mode Parameters (FDD)

The reference configuration is that Compressed Mode is disabled, except when the Hard Handover (inter-frequency network configuration is being used). It is necessary to define a set of compressed mode parameters to be used for inter-frequency hard handover.

6.8.1 Normal Operation

Downlink Compressed Mode – disabled.

Uplink Compressed Mode – disabled.

6.8.2 Inter-Frequency Hard Handover

Downlink compressed Mode - enabled

Parameters

Downlink Compression Method

SF Reduction

Left/Right Alternative DL Scrambling Codes No

Compressed Mode Sequence and Parameters

Frame Structure Type A

SFN for first transmission gap

Fixed Gap Position

TGL = 7

Double Slot Gap

TGP

TGD

PD

Uplink Compressed Mode - disabled

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.

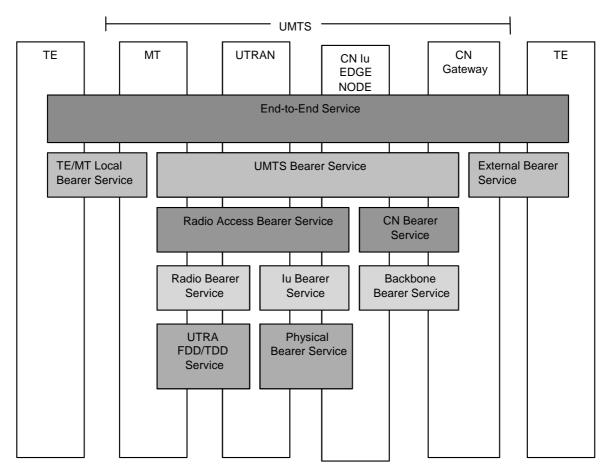
The reference radio bearer configurations are used in the radio bearer interoperability test cases, clause 14 of TS 34.123-1 [1]. The reference radio bearer configurations are also intended to be the first choice for other test cases where a radio bearer configuration is needed. For test cases requiring 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.



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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.

Table 6.10.1.1: Traffic classes

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

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.

| # | Traffic class [15] | SSD [15] | 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 | CS CS |
| | | | 4.75) DL:(12.2 | |
| | | | 7.95 5.9 4.75) | |
| 2 | Conversational | Speech | UL:10.2 DL:10.2 | CS |
| 2a | Conversational | Speech | UL:(10.2, 6.7, 5.9, | CS |
| | | | 4.75) DL:(10.2, | |
| | | | 6.7, 5.9, 4.75) | |
| 3 | Conversational | Speech | UL:7.95 DL:7.95 | CS |
| 4 | Conversational | Speech | UL:7.4 DL:7.4 | CS |
| 4a | Conversational | Speech | UL:(7.4, 6.7, 5.9, | CS |
| | | | 4.75) DL:(7.4, 6.7, | |
| | Convergational | Chaoch | 5.9, 4.75) | CC |
| 5 6 | Conversational Conversational | Speech | UL:6.7 DL:6.7 | CS CS |
| 7 | Conversational | Speech | UL:5.9 DL:5.9 UL:5.15 DL:5.15 | CS |
| 8 | Conversational | Speech 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 |
| 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 | Streaming | Unknown | UL:0 DL:64 | CS |
| 15a | Streaming | Unknown | UL:16 DL:64 | PS |
| 16 | Streaming | Unknown | UL:64 DL:0 | CS |
| 17 | Streaming | Unknown | UL:0 DL:128 | CS |
| 18 | Streaming | Unknown | UL:128 DL:0 | CS |
| 19 | Streaming | Unknown | UL:0 DL:384 | CS |
| 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 | Interactive or Background | N/A | UL:64 DL:8 | PS |
| 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 | Interactive or Background | N/A | UL:384 DL:2048 | PS |
| 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 |

Table 6.10.2.1.2: Signalling RBs

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

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.
- 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 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) Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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 (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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 + 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 / 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) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:128 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:384 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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:24 DL:24 kbps SRPs for DCCH
 - + 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) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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.

Combinations on DSCH and DPCH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 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.
- 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.
- 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.

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 [15] | SSD [15] | Max. rate, kbps | CS/PS | BER [15] | |
| Conversational | Speech | UL:4.75-12.2 DL:4.75-12.2 | CS | 5x10 ⁻⁴ , 1x10 ⁻³ , 5x10 ⁻³ | AMR speech |
| Conversational | Unknown | UL:64 DL:64 | CS | 1x10 ⁻⁴ or 1x10 ⁻⁶ | UDI 1B, 64k 3G-324M [15] |
| Conversational | Unknown | UL:32 DL:32 | CS | 1x10 ⁻⁴ or 1x10 ⁻⁶ | 32k 3G-324M [15] |
| Conversational | Unknown | UL:28.8 DL:28.8 | CS | 1x10 ⁻³ | Transparent modem |
| Streaming | Unknown | UL:14.4 DL:14.4 | CS | 1x10 ⁻³ | FAX ^[6] |
| Streaming | Unknown | UL:28.8 DL:28.8 | CS | 1x10 ⁻³ | FAX [18] PIAFS 32 kbps |
| Streaming | Unknown | UL:57.6 DL:57.6 | CS | 1x10 ⁻³ | Modem [18], FTM [17] PIAFS 64 kbps |
| Streaming | Unknown | UL:64-128 or DL:64-384 | CS | 1x10 ⁻³ or 1x10 ⁻⁴ | Streaming video, uni-directional |
| Interactive or Background | N/A | UL:32-384 DL:8-2048 | PS | 1x10 ⁻³ or 1x10 ⁻⁴ | 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 | RAB/signalling RB | | 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 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 | 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) | | | |
| | TFS | 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 | | | | | | |
| | 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 | MAC multiplexing | | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | 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 | TTI, ms | | 80 | | | |
| | Coding type | Coding type | | CC 1/3 | | | |
| | CRC, bit | | | 16 | | | |
| | Max number of bits | /TTI before rate | | 5′ | 16 | | |
| | matching | matching | | | | | |
| | RM attribute | | 155- | -185 | | | |
| NOTE: alterna | ative parameters enable | 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 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 ty | ре | DCCH | DCCH | DCCH | DCCH | | |
| | RLC mode | | UM | AM | AM | AM | | |
| | Payload sizes, bit | | 136 | 128 | 128 | 128 | | |
| | Max data rate, bps | 3 | 3400 | 3200 | 3200 | 3200 | | |
| | AMD/UMD PDU h | eader, bit | 8 | 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 | | | | 148 (alt 0, 148) | | | |
| | TFS | TFS TF0, bits | | 0x148 (alt 1x0) | | | | |
| | | TF1, bits | | 1x148 | | | | |
| | TTI, ms | TTI, ms | | 40 | | | | |
| | Coding type | Coding type | | CC 1/3 | | | | |
| | CRC, bit | CRC, bit | | 16 | | | | |
| | Max number of bit | Max number of bits/TTI before rate | | 516 | | | | |
| | matching | | | | | | | |
| | Uplink: Max numb | | | 1: | 29 | | | |
| | frame before rate | 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 Bea | User of Radio Bearer | | RRC | NAS_DT | NAS_DT |
| | | | | | High prio | Low prio |
| RLC | Logical channel type | Logical channel type | | DCCH | DCCH | DCCH |
| | RLC mode | RLC mode | | AM | AM | AM |
| | Payload sizes, bit | Payload sizes, bit | | 128 | 128 | 128 |
| | Max data rate, bps | Max data rate, bps | | 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 | TrCH type | | DCH | | |
| | TB sizes, bit | | 148 (alt 0, 148) (note) | | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) (note) | | | |
| | | TF1, bits | | 1x1 | 148 | |
| | TTI, ms | | 40 | | | |
| | Coding type | Coding type | | CC 1/3 | | |
| | CRC, bit | CRC, bit | | 16 | | |
| | Max number of bits/TTI before rate matching | | | 5′ | 16 | |
| | RM attribute | | | 155-230 | | |
| NOTE: altern | ative parameters enabl | e the measurement ' | transport chan | nel BLER" in th | ne 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 spreadi | ng 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 | rer | 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 | | 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 | | DCH | | | | |
| | TB sizes, bit | | | 148 (al | t 0, 148) | | |
| | TFS | TF0, bits | 0x148 (alt 1x0) | | | | |
| | TF1, bits | | 1x148 | | | | |
| | TTI, ms | | 10 | | | | |
| | Coding type | | CC 1/3 | | | | |
| | CRC, bit | | | 16 | | | |
| | Max number of bits/TTI before rate | | 516 | | | | |
| | matching | | | | | | |
| | Uplink: Max numbe 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 | er | 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, 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 | | 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 | | 1x1 | 48 | | |
| | TTI, ms | | 10 | | | | |
| | Coding type | | CC 1/3 | | | | |
| | CRC, bit | | 16 | | | | |
| | 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 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 (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 | 103 | 60 |
| | | (alt. 0, 39, 81) | | |
| | 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 |
| | Uplink: 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 25.212).

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 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 39 81 | 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 | 0 39 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 | 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 |
| | 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.).

6.10.2.4.1.4.2.1.2 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 | on | 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 layer | RAB/Signall | ing RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|-----------------|---|--------------|---|-----------------|----------------|
| RLC | Logical channel type | | DTCH | | |
| | RLC mode | | TM | TM | TM |
| | Payload size | es, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 81) | 53, 63, 84, 103 | 60 |
| | Max data ra | te, bps | , , , | 12200 | |
| | TrD PDU he | ader, bit | | 0 | |
| MAC | MAC heade | r, bit | | 0 | |
| | MAC multipl | exing | | N/A | |
| Layer 1 | TrCH type | | DCH | DCH | DCH |
| · | TE | 3 sizes, bit | 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60 |
| | TFS | TF0, bits | 0x81(alt. 1x0) (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 |
| | Uplink: Max number of bits/radio frame before rate matching | | 152 | 167 | 68 |
| | RM attribute | | 180-220 | 170-210 | 215-256 |

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

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 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 s | izes, bit | 0, 39, 42, 55, 75, 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, | | 0, 39, 42, 55, 75, 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 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 (alt. 0, 39, 65) | 99 | 40 |
| | Max data | rate, bps | , , , | 10200 | - |
| | TrD PDU | header, bit | | 0 | |
| MAC | MAC hea | ader, bit | | 0 | |
| | MAC mu | Itiplexing | | N/A | |
| Layer 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 |
| | | 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, 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 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 | | | |
| | | 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 | 99 | 40 | |
| | · | 39 | | | |
| | | 65 | | | |
| | 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 | 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 |

6.10.2.4.1.5a 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 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 (alt. 0, 39, 42, 55, 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 (alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40 | |
| | TFS TF0, bits | 0x65 (alt. 1x0) (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 ½ | |
| | 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, C 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 Layer | RAB/Signalling 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 | 0, 39, 42, 55, 58, 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 multi | plexing | | N/A | |
| Layer 1 | TrCH type | | DCH | DCH | DCH |
| | TB sizes, I | oit | 0, 39, 42, 55, 58, 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 typ | oe | CC 1/3 | CC 1/3 | CC ½ |
| | CRC, bit | | 12 | N/A | N/A |
| | Max number of bits/TTI after channel coding | | 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 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 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 39 | 84 |
| | | | 75 | |
| | Max data | rate, bps | 79: | 50 |
| | TrD PDU I | header, bit | C |) |
| MAC | MAC header, bit | | C |) |
| | MAC mult | iplexing | N/A | |
| Layer 1 | TrCH type | • | DCH | DCH |
| | TB sizes, bit | | 0 | 84 |
| | | | 39 | |
| | | | 75 | |
| | TFS | TF0, bits | 1x0 (note 2) | 0x84 |
| | (note 1) | TF1, bits | 1x39 | 1x84 |
| | | TF2, bits | 1x75 | N/A |
| | TTI, ms | · | 20 | 20 |
| | Coding type | ре | CC 1/3 | CC 1/3 |
| | CRC, bit Max number of bits/TTI after channel coding | | 12 | N/A |
| | | | 285 | 276 |
| | 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).

6.10.2.4.1.6.2.1.2 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 layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|-----------------|--|-------------------------|----------------|--|
| RLC | Logical channel type | DTC | DTCH | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | Max data rate, bps | 740 | 00 | |
| | 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 subfl | | | |

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 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 header, bit | | 0 | |
| | 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 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 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 |

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 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, 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 number 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 | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|---------|---|-------------------------|----------------|
| layer | | | |
| RLC | Logical channel type | DTC | CH |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 39, 58 (alt. 0, 39, 58) | 76 |
| | Max data rate, bps | 670 | 00 |
| | 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, 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 type | CC 1/3 | CC 1/3 |
| | CRC, bit | 12 | N/A |
| | Max number of bits/TTI after channel coding | 234 | 252 |
| | Uplink: Max number of bits/radio frame before rate matching | 117 | 126 |
| | RM attribute | 180-220 | 170-210 |

of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

6.10.2.4.1.8.1.1.2 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 layer | RAB/Sign | alling RB | RAB subflow #1 | RAB subflow #2 |
|-----------------|---|-------------|----------------|----------------|
| RLC | Logical channel type | | Dī | ГСН |
| | RLC mode | | TM | TM |
| | Payload s | izes, bit | 0 39 58 | 76 |
| | Max data | rate, bps | | 700 |
| | | header, bit | | 0 |
| MAC | MAC header, bit | | 0 | |
| | MAC multiplexing | | N/A | |
| Layer 1 | TrCH type | | DCH | DCH |
| | TB sizes, bit | | 0 39 58 | 76 |
| | 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 attribu | ute | 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 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 | 113 | 107 | |
| | rate matching | 190 220 | 170 210 | |
| | 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 subfl | | | |

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 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 | 0 | |
| | 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

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

| Higher 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 6.10.2.4.1.1.1.1.1

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 layer | RAB/Signa | alling RB | RAB subflow #1 | RAB subflow #2 |
|-----------------|----------------------|-------------------------------------|----------------|----------------|
| RLC | Logical channel 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 header, bit | | 0 | |
| | MAC multi | plexing | N/A | |
| Layer 1 | TrCH type | | DCH | DCH |
| | TB sizes, bit | | 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 type | | CC 1/3 | CC 1/3 |
| | CRC, bit | | 12 | N/A |
| | Max numb | er of bits/TTI after channel coding | 207 | 186 |
| | 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).

6.10.2.4.1.10.2.1.2 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 layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|-----------------|---|-------------------------|----------------|
| RĹC | Logical channel type | DTCH | |
| | 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 | |
| ЛАC | MAC header, bit | 0 | |
| | MAC multiplexing | N/A | |
| ayer 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 | 93 | 92 |
| | rate matching | | |
| | RM attribute | 180-220 | 170-210 |

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 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 | MAC head | der, bit | 0 | |
| | 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 | | CC 1/3 | CC 1/3 |
| | CRC, bit | | 12 | N/A |
| | Max numb | per of bits/TTI after channel coding | 186 | 183 |
| | 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).

6.10.2.4.1.11.2.1.2 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 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 layer | RAB/Signalling RB | | RAB |
|-----------------|-------------------|---------------------------------------|---------|
| RLC | Logical | 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 he | ader, bit | 0 |
| | MAC mu | ultiplexing | N/A |
| Layer 1 | TrCH typ | De . | DCH |
| | TB sizes | s, bit | 576 |
| | TFS | TF0, bits | 0x576 |
| | | TF1, bits | 1x576 |
| | | TF2, bits | 2x576 |
| | TTI, ms | | 40 |
| | Coding t | type | TC |
| | CRC, bit | t e | 16 |
| | Max nun | nber of bits/TTI after channel coding | 3564 |
| | RM attril | bute | 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

Uplink 6.10.2.4.1.13.1

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 layer | RAB/Signalling I | ₹В | RAB |
|-----------------|---|-----------|-------------------|
| RLC | Logical channel type | | DTCH |
| | RLC mode | 77- | TM |
| | Payload sizes, b | it | 640 |
| | Max data rate, b | ps | 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(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 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 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 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 | RAB/Signalling RB | RAB |
|---------|---|---------|
| layer | | D=0.11 |
| 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 | 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 | RAB/Signalling RB | RAB |
|---------|---|---------|
| layer | | |
| 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 |
| | RM attribute | 135-175 |

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 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 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 Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

6.10.2.4.1.18.1 Uplink

6.10.2.4.1.18.1.1 Transport channel parameters

Transport channel parameters for Streaming / unknown / UL:0 kbps / CS RAB 6.10.2.4.1.18.1.1.1

N/A

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.18.1.1.3

See clause 6.10.2.4.1.2.1.1.2.

6.10.2.4.1.18.1.2 Physical channel parameters

See clause 6.10.2.4.1.2.1.2.

6.10.2.4.1.18.2 Downlink

6.10.2.4.1.18.2.1 Transport channel parameters

6.10.2.4.1.18.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 320 |
| | 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 | 320 |
| | TFS TF0, bits | 0x320 |
| | TF1, bits | 1x320 |
| | TF2, bits | 2x320 |
| | TF3, bits | 4x320 |
| | TF4, bits | 8x320 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8076 |
| | RM attribute | 125-165 |

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.18.2.1.3 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) |

6.10.2.4.1.18.2.2 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 |

Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for 6.10.2.4.1.19 **DCCH**

6.10.2.4.1.19.1 Uplink

6.10.2.4.1.19.1.1 Transport channel parameters

6.10.2.4.1.19.1.1.1 Transport channel parameters for Streaming / unknown / UL:64 kbps / CS RAB

| Higher layer | RAB/Sig | nalling RB | RAB |
|-----------------|---|---------------|---------|
| RLC | Logical channel type | | DTCH |
| | RLC mo | de | TM |
| | Payload | sizes, bit | 320 |
| | Max data | a rate, bps | 64000 |
| | TrD PDL | J header, bit | 0 |
| MAC | MAC hea | ader, bit | 0 |
| | MAC mu | ıltiplexing | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bit | | 320 |
| | TFS | TF0, bits | 0x320 |
| | | TF1, bits | 1x320 |
| | | TF2, bits | 2x320 |
| | | TF3, bits | 4x320 |
| | | TF4, bits | 8x320 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 8076 |
| | Uplink: Max number of bits/radio frame before rate matching | | 2019 |
| | RM attribute | | 125-165 |

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.19.1.1.3 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) |

6.10.2.4.1.19.1.2 Physical channel parameters

| DPCH | Min spreading factor | 16 |
|--------|-------------------------------------|------|
| Uplink | Max number of DPDCH data bits/radio | 2400 |
| | frame | |
| | Puncturing Limit | 1 |

6.10.2.4.1.19.2 Downlink

6.10.2.4.1.19.2.1 Transport channel parameters

6.10.2.4.1.19.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS RAB

N/A

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.19.2.1.3 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.1.19.2.2 Physical channel parameters

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.1.20 Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

6.10.2.4.1.20.1 Uplink

6.10.2.4.1.20.1.1 Transport channel parameters

6.10.2.4.1.20.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS RAB

N/A

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.20.1.1.3 TFCS

See clause 6.10.2.4.1.2.1.1.2.

6.10.2.4.1.20.1.2 Physical channel parameters

See clause 6.10.2.4.1.2.1.2.

6.10.2.4.1.20.2 Downlink

6.10.2.4.1.20.2.1 Transport channel parameters

6.10.2.4.1.20.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 128000 |
| | TrD PDU header, bit | 0 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| ' | TB sizes, bit | 320 |
| | TFS TF0, bits | 0x320 |
| | TF1, bits | 1x320 |
| | TF2, bits | 2x320 |
| | TF3, bits | 4x320 |
| | TF4, bits | 8x320 |
| | TF5, bits | 16x320 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 16152 |
| | RM attribute | 125-165 |

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.20.2.1.3 TFCS

| TFCS size | 12 |
|-----------|--|
| TFCS | (128 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) |

6.10.2.4.1.20.2.2 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 |

6.10.2.4.1.21 Streaming / unknown / UL:128 DL:0 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.21.1 Uplink

6.10.2.4.1.21.1.1 Transport channel parameters

6.10.2.4.1.21.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / CS RAB

| Higher layer | RAB/Sigr | nalling RB | RAB |
|-----------------|---|--------------------------------------|---------|
| RLC | Logical cl | hannel type | DTCH |
| | RLC mod | de | TM |
| | Payload s | sizes, bit | 320 |
| | Max data | rate, bps | 128000 |
| | TrD PDU | header, bit | 0 |
| MAC | MAC hea | der, bit | 0 |
| | MAC mul | Itiplexing | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, | bit | 320 |
| | TFS | TF0, bits | 0x320 |
| | | TF1, bits | 1x320 |
| | | TF2, bits | 2x320 |
| | | TF3, bits | 4x320 |
| | | TF4, bits | 8x320 |
| | | TF5, bits | 16x320 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max num | ber of bits/TTI after channel coding | 16152 |
| | Uplink: Max number of bits/radio frame before rate matching | | 4038 |
| | RM attribute | | 125-165 |

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.21.1.1.3 TFCS

| TFCS size | 12 |
|-----------|--|
| TFCS | (128 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) |

6.10.2.4.1.21.1.2 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 | .4.1.21.2 | Downlink |
|---------|---------------|----------|
| b. IU.Z | .4. .८ .८ | DOWNIINK |

6.10.2.4.1.21.2.1 Transport channel parameters

6.10.2.4.1.21.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS RAB

N/A

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.21.2.1.3 TFCS

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.21.2.2 Physical channel parameters

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.1.22 Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

6.10.2.4.1.22.1 Uplink

6.10.2.4.1.22.1.1 Transport channel parameters

6.10.2.4.1.22.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS RAB

N/A

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.22.1.1.3 TFCS

See clause 6.10.2.4.1.2.1.1.2.

6.10.2.4.1.22.1.2 Physical channel parameters

See clause 6.10.2.4.1.2.1.2.

6.10.2.4.1.22.2 Downlink

6.10.2.4.1.22.2.1 Transport channel parameters

6.10.2.4.1.22.2.1.1 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS RAB

| Higher layer | RAB/Signal | ling RB | RAB |
|-----------------|----------------------|-------------------------------------|---------|
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload siz | es, bit | 320 |
| | Max data ra | | 384000 |
| | TrD PDU he | eader, bit | 0 |
| MAC | MAC heade | er, bit | 0 |
| | MAC multip | lexing | N/A |
| Layer 1 | TrCH type | | DCH |
| | TB sizes, bi | it | 320 |
| | TFS | TF0, bits | 0x320 |
| | | TF1, bits | 1x320 |
| | | TF2, bits | 2x320 |
| | | TF3, bits | 4x320 |
| | | TF4, bits | 8x320 |
| | | TF5, bits | 16x320 |
| | | TF6, bits | 32x320 |
| | | TF7, bits | 48x320 |
| | TTI, ms | | 40 |
| | Coding type | 9 | TC |
| | CRC, bit | | 16 |
| | Max numbe | er of bits/TTI after channel coding | 48432 |
| | RM attribute | e | 110-150 |

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.22.2.1.3 TFCS

| TFCS size | 16 |
|-----------|---|
| TFCS | (384 kbps RAB, DCCH)= |
| | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), |
| | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1) |

6.10.2.4.1.22.2.2 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 |

6.10.2.4.1.23 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 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 rate matching | 1062 (alt. 1080) |
| | 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 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 UL: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 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 |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 1080 |
| | Uplink: Max number of bits/radio frame | 270 |
| | 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 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 |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel of | coding 1080 |
| | RM attribute | 135-175 |

6.10.2.4.1.23a.2.1.2 Transport channel parameters for UL: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/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 |
| | Uplink: Max number of bits/radio frame | 531 |
| | before rate matching | |
| | RM attribute | 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 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 |
| | RM attribute | 135-175 |

6.10.2.4.1.23b.2.1.2 Transport channel parameters for UL: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 layer | RAB/Sig | nalling RB | RAB |
|-----------------|---|---------------------------------------|---------|
| RLC | Logical o | channel type | DTCH |
| | RLC mo | de | AM |
| | Payload | sizes, bit | 320 |
| | Max data | a rate, bps | 32000 |
| | AMD PD | U header, bit | 16 |
| MAC | MAC hea | ader, bit | 0 |
| | MAC mu | Iltiplexing | 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 t | | TC |
| | CRC, bit | | 16 |
| | Max nun | nber of bits/TTI after channel coding | 4236 |
| | Uplink: Max number of bits/radio frame before rate matching | | 1059 |
| | RM attrib | oute | 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 (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF4,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) | 1), |
|---|-----|

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 layer | RAB/Sig | nalling RB | RAB |
|-----------------|-----------------|---------------------------------------|---------|
| RLC | Logical c | hannel type | DTCH |
| | RLC mod | de | AM |
| | Payload | sizes, bit | 320 |
| | Max data | a rate, bps | 32000 |
| | AMD PD | U header, bit | 16 |
| MAC | MAC header, 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 | | 40 |
| | Coding ty | | TC |
| | CRC, bit | | 16 |
| | Max num | nber 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 UL: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 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 |

6.10.2.4.1.23d 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 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 | 1062 |
| | before rate matching | |
| | 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 | |
| | Puncturing Limit | 0.88 |

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 layer | RAB/Sig | gnalling RB | RAB |
|-----------------|---------------|---------------------------------------|---------|
| RLC | Logical | channel type | DTCH |
| | RLC mc | ode | AM |
| | Payload | I sizes, bit | 320 |
| | Max dat | a rate, bps | 32000 |
| | AMD P | DU header, bit | 16 |
| MAC | MAC he | eader, bit | 0 |
| | MAC m | ultiplexing | 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, bi | t | 16 |
| | Max nur | mber of bits/TTI after channel coding | 2124 |
| | RM attri | bute | 135-175 |

6.10.2.4.1.23d.2.1.2 Transport channel parameters for UL: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 | | 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 Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

Uplink 6.10.2.4.1.24.1

6.10.2.4.1.24.1.1 Transport channel parameters

Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB 6.10.2.4.1.24.1.1.1

| Higher layer | RAB/Signa | lling RB | RAB |
|-----------------|---|-------------|---------|
| RLC | Logical channel type | | DTCH |
| | RLC mode | | AM |
| | Payload siz | zes, bit | 320 |
| | Max data ra | ate, bps | 64000 |
| | AMD PDU | header, bit | 16 |
| MAC | MAC heade | er, bit | 0 |
| | MAC multip | olexing | 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 attribut | e | 130-170 |

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.24.1.1.3 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) |

6.10.2.4.1.24.1.2 Physical channel parameters

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

6.10.2.4.1.24.2 Downlink

See clause 6.10.2.4.1.23.2.

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 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 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 |

6.10.2.4.1.26 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

See clause 6.10.2.4.1.24.1.

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 6.10.2.4.1.24.1.

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 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

Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB 6.10.2.4.1.28.1.1.1

| Higher 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 |
| | Uplink: Max number of bits/radio frame before rate matching | 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 6.10.2.4.1.24.1.

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 layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | 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 |
| | 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 |
| | RM attribute | 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

Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB 6.10.2.4.1.30.1.1.1

| Higher layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | 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 |
| | 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 number of bits/TTI after channel coding | 9516 |
| | Uplink: Max number of bits/radio frame before | 4758 |
| Ì | rate matching | |
| | RM attribute | 140-180 |

Transport channel parameters for UL:3.4 kbps SRBs for DCCH 6.10.2.4.1.30.1.1.2

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 6.10.2.4.1.24.1.

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 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) |
| | RM attribute | 135-175 |

6.10.2.4.1.31.2.1.2 Transport channel parameters for UL: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 | link Spreading factor Number od DPDCH DPCCH Number of TFCI bits/slot | | 8 |
| | | | 1 |
| | | | 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 6.10.2.4.1.24.1.

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 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 UL: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 layer | RAB/Sigr | nalling RB | RAB |
|-----------------|---|--------------------------------------|--------------------|
| RLC | Logical cl | hannel type | DTCH |
| | RLC mod | le | AM |
| | Payload s | sizes, bit | 320 |
| | Max data | rate, bps | 384000 |
| | AMD PDI | J header, bit | 16 |
| MAC | MAC hea | der, bit | 0 |
| | MAC mul | tiplexing | N/A |
| Layer 1 | TrCH type | e | DCH |
| | TB sizes, | | 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 ty | /pe | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 25368 |
| | | ax number of bits/radio frame before | 12684 |
| | rate matc | | |
| | RM attrib | ute | 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 6.10.2.4.1.24.1.

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 Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.36.1 Uplink

See clause 6.10.2.4.1.28.1.

6.10.2.4.1.36.2 Downlink

See clause 6.10.2.4.1.35.2.

6.10.2.4.1.37 Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.37.1 Uplink

See clause 6.10.2.4.1.34.1.

6.10.2.4.1.37.2 Downlink

See clause 6.10.2.4.1.35.2.

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), (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, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
| | (TF0, TF0, TF1, 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, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
| | (TF0, TF0, TF1, 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 bps 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 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 before rate matching | 0 |
| | 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), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,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 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), (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 | gfactor | 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 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), (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 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), (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) |

6.10.2.4.1.38b.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), (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.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,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 Layer | RAB/Signalling RB | | RAB | RAB |
|-----------------|---|---------------|-----------------|-----------------|
| RLC | Logical channel type | | DTCH | DTCH |
| | RLC mod | | AM | AM |
| | Payload s | sizes, bit | 320 | 320 |
| | Max data | rate, bps | 64000 | 64000 |
| | AMD PDU | J header, bit | 16 | 16 |
| MAC | MAC hea | der, bit | 4 | 4 |
| | MAC mult | tiplexing | 2 logical chann | el multiplexing |
| Layer 1 | TrCH type | | DCH | |
| | TB sizes, | bit | 34 | 0 |
| | TFS | TF0, bits | 0x3 | 40 |
| | | TF1, bits | 1x3 | 40 |
| | | TF2, bits | 2x3 | 40 |
| | | TF3, bits | 3x3 | 40 |
| | | TF4, bits | 4x3 | 40 |
| | 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 | | 214 | 42 |
| | | e matching | | |
| | RM attribute | | 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 Layer | RAB/Signalling 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 multiplexing | | 2 logical chan | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | | DCH | | |
| | TB sizes, bit | | 340 | | |
| | TFS | 0x340 | 0x340 | | |
| | | 1x340 | 1x340 | | |
| | | 2x340 | 2x | 340 | |
| | 3x340 | | 3x340 | | |
| | | 4x340 | | 340 | |
| | TTI, ms | | 20 | | |
| | Coding type | | TC | | |
| | CRC, bit | | 16 | | |
| | Max number of bits/TTI after channel coding | | 4284 | | |
| | RM attribute | | 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 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 |

6.10.2.4.1.38f 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.1.1.1.

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,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) |

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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.2.1.1

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,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,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) |

6.10.2.4.1.38f.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 |

6.10.2.4.1.38g 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,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 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 6.10.2.4.1.24.1.1.1.

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,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), (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,TF3,TF0), (TF1,TF0,TF0,TF0,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,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) |
| | [(11 0,11 2,11 0,11 1,11 1,11 1,11 0,11 0, |

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 bbps 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), (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,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,TF1), (TF4,TF3,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,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) |

6.10.2.4.1.38j.2.2 Physical channel parameters

| DPCH | DTX posit | ion | 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, 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) |

6.10.2.4.1.39.2.2 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 6.10.2.4.1.24.1.1.1.

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, 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, 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, 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 positi | on | 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), (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, 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, 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)] |

6.10.2.4.1.43.2.2 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 |

6.10.2.4.1.44 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, 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) |

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, 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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF1, TF1), (TF1, TF1, TF1), (TF1, TF1, TF1, 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, TF0, TF0, TF0, TF0, TF0 |
| | (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, 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, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, 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, 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, TF14, TF0), (TF1, TF0, TF0, TF14, TF0), (TF2, TF1, TF1, TF14, 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, 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), |
| | (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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF1), (TF1, TF3, 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), |
| | (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, TF1), (TF2, TF1, TF1, TF11, TF1) |
| | (TF0, TF0, TF0, TF11, TF1), (TF1, TF0, TF0, TF11, TF1), (TF2, TF1, TF1, TF11, TF1), (TF0, TF0, TF0, TF12, TF1), (TF1, TF0, TF0, TF12, TF1), (TF2, TF1, TF1, TF12, TF1), |
| | (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, TF15, TF1), (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, TF1, TF17, TF1 |
| | (TF0, TF0, TF1, 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)) |
| | 1(11 0, 11 0, 11 10, 11 10, 11 17, (11 1, 11 0, 11 10, 11 17, (112, 111, 111, 1110, 111)) |

6.10.2.4.1.44.2.2 Physical channel parameters

| DPCH | DTX position | | Flexible |
|----------|------------------|---------------------------|----------|
| Downlink | Spreading factor | | 4 |
| | Number of DPDCH | | 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 UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.11.

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 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 |

6.10.2.4.1.46 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.46.1 Uplink

See clause 6.10.2.4.1.4.1.

6.10.2.4.1.46.2 Downlink

6.10.2.4.1.46.2.1 Transport channel parameters

6.10.2.4.1.46.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.46.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.18.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.46.2.1.4 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) |

6.10.2.4.1.46.2.2 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 |

6.10.2.4.1.47 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.47.1 Uplink

See clause 6.10.2.4.1.4.1.

6.10.2.4.1.47.2 Downlink

6.10.2.4.1.47.2.1 Transport channel parameters

6.10.2.4.1.47.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.47.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS RAB See clause 6.10.2.4.1.20.2.1.1.

6.10.2.4.1.47.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.47.2.1.4 TFCS

| TFCS size | 36 |
|-----------|--|
| 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, 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) |

6.10.2.4.1.47.2.2 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 |

6.10.2.4.1.48 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.48.1 Uplink

See clause 6.10.2.4.1.4.1.

6.10.2.4.1.48.2 Downlink

6.10.2.4.1.48.2.1 Transport channel parameters

6.10.2.4.1.48.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.48.2.1.2 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS RAB See clause 6.10.2.4.1.22.2.1.1.

6.10.2.4.1.48.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.48.2.1.4 TFCS

| TFCS size | 48 |
|-----------|--|
| 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, 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, 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), |
| | (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) |

6.10.2.4.1.48.2.2 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 |

6.10.2.4.1.49 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, 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) |

6.10.2.4.1.49.2.2 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 |

6.10.2.4.1.49a 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), (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,TF1), (TF2,TF1,TF0,TF0,TF1), |
| | (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,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,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) |

6.10.2.4.1.49a.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 |

6.10.2.4.1.50 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

6.10.2.4.1.50.1 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 6.10.2.4.1.24.1.1.1.

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 6.10.2.4.1.37.1.1.1.

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, TF1, 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

| DP | CH | Min spreading factor | 16 |
|----|------|---|------|
| Up | link | 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.2.1.1.

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, 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 | 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 |

6.10.2.4.1.51b 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 cha | | annel type | DTCH |
| | RLC mode | | AM |
| | Payload si | zes, bit | 320 |
| | Max data r | rate, bps | 16000 |
| | AMD PDU | header, bit | 16 |
| MAC | MAC head | ler, bit | 0 |
| | MAC multi | plexing | 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 | x number of bits/radio frame before rate matching | 531 |
| | RM attribu | te | 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), (TF0, TF1), (TF0, TF1, TF1), (TF0, TF0, TF1), (TF0, TF1, TF1, TF1), (TF0, TF1, TF1, TF1), (TF0, TF1, TF1, TF1, TF1, TF1), (TF0, TF1, TF1, TF1, TF1, TF1, TF1, TF1, TF1 |
| | TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (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 Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.54.1 Uplink

See clause 6.10.2.4.1.24.1.

6.10.2.4.1.54.2 Downlink

6.10.2.4.1.54.2.1 Transport channel parameters

6.10.2.4.1.54.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.54.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.18.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.54.2.1.4 TFCS

| TFCS size | 50 |
|-----------|--|
| TFCS | (I/B 128 kbps RAB, Str. 64 kbps RAB, 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, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0), |
| | (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0), |
| | (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, 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), |
| | (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1), |
| | (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1), |
| | (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1) |

6.10.2.4.1.54.2.4 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 |

6.10.2.4.1.55 Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown /

UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.55.1 Uplink

See clause 6.10.2.4.1.24.1.

6.10.2.4.1.55.2 Downlink

6.10.2.4.1.55.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.55.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS RAB

See clause 6.10.2.4.1.20.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.55.2.1.4 TFCS

| TFCS size | 60 |
|-----------|--|
| TFCS | (I/B 128 kbps RAB, Str. 128 kbps RAB, 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, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0), |
| | (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0), |
| | (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, TF0), |
| | (TF0, TF5, TF0), (TF1, TF5, TF0), (TF2, TF5, TF0), (TF3, TF5, TF0), (TF4, TF5, TF0), |
| | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), |
| | (TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), |
| | (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1), |
| | (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1), |
| ĺ | (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1) |
| | (TF0, TF5, TF1), (TF1, TF5, TF1), (TF2, TF5, TF1), (TF3, TF5, TF1), (TF4, TF5, TF1) |

6.10.2.4.1.55.2.2 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 |

6.10.2.4.1.56 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 Layer | RAB/Signalling RB | | RAB | RAB |
|-----------------|-------------------|---------------------------------------|--------------------------------|------|
| RLC | | | DTCH | DTCH |
| | RLC mo | de | AM | AM |
| | Payload | sizes, bit | 320 | 320 |
| | Max data | a rate, bps | 8000 | 8000 |
| | AMD PD | OU header, bit | 16 | 16 |
| MAC | MAC he | ader, bit | 4 | 4 |
| | MAC mu | ultiplexing | 2 logical channel multiplexing | |
| Layer 1 | TrCH typ | oe . | DCH | |
| - | TB sizes | s, bit | 340 | |
| | TFS | TF0, bits | 0x340 | |
| | | TF1, bits | 1x3 | 340 |
| | TTI, ms | | 40 | |
| | Coding t | type | TC | |
| | CRC, bit | t | 16 | |
| | Max nur | nber of bits/TTI after channel coding | 1080 | |
| | Uplink: N | Max number of bits/radio frame | 270 | |
| | before ra | ate matching | | |
| l | RM attril | bute | 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 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 | 3 | 40 |
| | 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 | |
| | 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 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 chann | el multiplexing |
| Layer 1 | TrCH type | DCH | |
| | TB sizes, bit | 340 | |
| | TFS TF0, bits | 0x3 | 40 |
| | TF1, bits | 1x3 | 40 |
| | TF2, bits | 2x3 | 40 |
| | TF3, bits | 3x3 | 40 |
| | TF4, bits | 4x3 | 40 |
| | TTI, ms | 20 | |
| | Coding type | TC | |
| | CRC, bit | 1 | 6 |
| | Max number of bits/TTI after channel coding | 42 | 84 |
| | Uplink: Max number of bits/radio frame | 21 | 42 |
| | before rate matching | | |
| | 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 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 multiplexing | | 2 logical channel multiplexing | |
| Layer 1 | TrCH type | | DCH | |
| | TB sizes, bit | | 340 | |
| | TFS | 0x340 | 0x340 | |
| | | 1x340 | 1x340 | |
| | 2x340 | | 2x340 | |
| | | 3x340 | 3x340 | |
| | | 4x340 | 4x340 | |
| | TTI, ms | | 20 | |
| | Coding type | | TC | |
| | CRC, bit | | 16 | |
| | Max number of bits/TTI after channel coding | | 4284 | |
| | RM attribute | | 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.1.1.1.

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 | 2400 |
| | 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 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 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 type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 8076 |
| | RM attribute | | 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.2.1.1.

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 Number of TPC bits/slot | | 8 |
| | | | 4 |
| | | Number of Pilot bits/slot | 8 |
| | DPDCH | Number of data bits/slot | 140 |
| | | Number of data bits/frame | 2100 |

6.10.2.4.2 Combinations on PDSCH and DPCH

6.10.2.4.2.1 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.1.1 Uplink

See clause 6.10.2.4.1.24.1.

6.10.2.4.2.1.2 Downlink

6.10.2.4.2.1.2.1 Transport channel parameters

6.10.2.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL:256 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 | 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 | N/A (alt. 12x354) |
| | TF6, bits | N/A (alt. 16x354) |
| | TTI, ms | 10(alt. 20) |
| | Coding type | TC |
| Ì | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8892(alt. 17784) |
| | RM attribute | 135-175 |

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.1.2.1.3 TFCS

| PDSCH | TFCS | 5 (alt.7) |
|------------|------|--|
| | size | |
| | TFCS | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6) |
| DPCH | TFCS | 2 |
| Downlink | size | |
| associated | TFCS | SRBs for DCCH = TF0, TF1 |
| with | | |
| PDSCH | | |

6.10.2.4.2.1.2.2 Physical channel parameters

| PDSCH | RAB or SRB, TrCh | | Interactive or background / 256 kbps / PS RAB, DSCH |
|------------|--------------------------|---------------------------|---|
| | DTX positio | n | N/A (SingleTrCH) |
| | Minimum spreading 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 |

6.10.2.4.2.2 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 6.10.2.4.1.24.1.

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 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 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 | PDSCH RAB or SRB, TrCh | | Interactive or background / 384 kbps / PS RAB, DSCH |
|------------|------------------------|---------------------------|---|
| | DTX position | on | N/A (SingleTrCH) |
| | Minimum sp | oreading factor | 8 |
| DPCH | RAB or SRI | B, 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 6.10.2.4.1.24.1.

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 layer | RAB/Sign | nalling RB | RAB |
|-----------------|------------|---------------|--|
| RLC | Logical ch | nannel type | DTCH |
| | RLC mod | е | AM |
| | Payload s | sizes, bit | 640 |
| | Max data | rate, bps | 2048000 |
| | AMD PDU | J header, bit | 16 |
| MAC | MAC hea | der, bit | 18 |
| | MAC mult | tiplexing | 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 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 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 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 Downlink | TFCS size | 2 |
| associated with PDSCH | TFCS | SRBs for DCCH = TF0, TF1 |

6.10.2.4.2.3.2.2 Physical channel parameters

| PDSCH | RAB or SRB, TrCh | | Interactive or background / 2048 kbps / PS RAB, DSCH |
|------------|--------------------------|---------------------------|--|
| | DTX position | n | N/A (SingleTrCH) |
| | Minimum spreading factor | | 4 |
| DPCH | RAB or SRB, TrCh | | 3.4 kbps SRB for DCCH, DCH |
| Downlink | DTX position | n | 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 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

6.10.2.4.2.4.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.4.2 Downlink

6.10.2.4.2.4.2.1 Transport channel parameters

6.10.2.4.2.4.2.1.1 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

6.10.2.4.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.2.4.2.1.2.1.1

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.4.2.1.4 TFCS

| PDSCH | TFCS | 5 (alt.7) |
|------------|------|---|
| | size | |
| | TFCS | 256 kbps RAB = TF0, TF1, TF2, TF3, TF4 |
| | | (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6) |
| 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) |

6.10.2.4.2.4.2.4 Physical channel parameters

| PDSCH | RAB or SRB, TrCh | | Interactive or background / 256 kbps / PS RAB, DSCH |
|------------------|--------------------------|---------------------------|--|
| | DTX position | on | N/A (SingleTrCH) |
| | Minimum spreading factor | | 4 |
| DPCH Downlink | RAB or SRB, TrCh | | Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH |
| associated | DTX position | | Fixed |
| with | Spreading factor | | 128 |
| PDSCH | 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 |

6.10.2.4.2.5 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 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 RAB, DSCI | |
|--------------------------------|--------------------------------|---------------------------|---|--|
| | DTX position | | N/A (SingleTrCH) | |
| | Minimum spreading factor | | 8 | |
| DPCH Downlink associated | | | Conversational / speech / 12.2 kbps / CS RAB, DCH + 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 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

| PDSCH | TFCS size | 11 (alt.19) | | | |
|------------|--------------|--|--|--|--|
| | TFCS | Who DAD TEO TE1 TE2 TE2 TE1 TE5 TE5 TE7 TE0 TE0 TE10 | | | |
| | 1103 | 2048 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 | | | |
| | | F0, 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 | | D, 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 SRB, TrCh | | Interactive or background / 2048 kbps / PS R | RAB, DSCH |
|---|--------------------------------|---------------------------|---|-----------|
| | DTX position | | N/A (SingleTrCH) | |
| | Minimum spreading factor | | 4 | |
| DPCH RAB or SRB, TrCh Downlink associated | | RB, TrCh | Conversational / speech / 12.2 kbps / CS RAB, DCH + 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 | |

6.10.2.4.3 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/signallir | ng RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | |
|---------|--------------------------|-------------------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|--|
| layer | User of Radi | o Bearer | RRC | RRC | RRC | NAS_DT | NAS_DT | RRC | |
| | | | | | | High prio | Low prio | | |
| RLC | Logical chan | nel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH | |
| | RLC mode | | UM | UM | AM | AM | AM | TM | |
| | Payload size | s, bit | 152 | 136 or 120 (note) | 128 | 128 | 128 | 166 | |
| | Max data rat | e, bps | 30400 (alt. 45600) | 27200 or 2400 (alt. 40800 or 36000) | 25600 (alt. 38400) | 25600 (alt. 38400) | 25600 (alt. 38400) | 33200 (alt. 49800) | |
| | AMD/UMD/T bit | rD PDU header, | 8 | 8 | 16 | 16 | 16 | 0 | |
| MAC | MAC header | MAC header, bit | | 24 or 40 | 24 | 24 | 24 | 2 | |
| IVIAC | MAC multiple | MAC multiplexing | | 6 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | | FACH | | | | | | |
| | TB sizes, bit | | 168 | | | | | | |
| | | TF0, bits | | | 0x1 | 68 | | | |
| | 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 rate matching | Max number of bits/TTI before | | 752 (alt. 1136) | | | | | |
| | RM attribute | <u> </u> | 200-240 | | | | | | |
| NOTE: | MAC header s | size and PLC paylo | ad size depe | nd on use of | | | | | |

6.10.2.4.3.2.1.3 TFCS

| TFCS size | 4, 5, or 6 |
|---------------|--|
| TFCS | (32kbps RAB, SRBs for CCCH/DCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), |
| | [TF0, TF3] (note), (TF1, TF0), [TF1, TF1] (note) |
| NOTE: These T | FCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for |
| TFC of (| TF0, TF2). |

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 |

6.10.2.4.3.3 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 | 6, 7, 8 or 9 for 240 bits PCH TrBlk size (alt. 6, 7, 8, 9, 10, or 11 for 80 bits PCH TrBlk size) | |
|-------------|--|--|
| TFCS | (32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) = | |
| | (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), [TF0, TF0, TF3] (see note), (TF0, TF1, TF0), | |
| | (TF0, TF1, TF1), [TF0, TF1, TF2] (see note), (TF1, TF0, TF0), [TF1, TF0, TF1] (see note) | |
| | (alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), [TF0,TF0, TF3] (see note), (TF0, TF1, | |
| | TF0), (TF0, TF1, TF1), [TF0, TF1, TF2] (see note), [TF0, TF1, TF3] (see note), (TF1, TF0, TF0), | |
| | [TF1, TF0, TF1] (see note), [TF1. TF1. TF0] (see note)) | |
| NOTE: These | e TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for | |
| TFC c | of (TF0, TF0, TF2). | |

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 RI | 3 | N/A |
|--------------|----------------------|--------------------|---------|
| | User of Radio Bearer | | BMC |
| RLC | Logical channel type | | CTCH |
| | RLC mode | | UM |
| | Payload sizes, bit | | 152 |
| | Max data rate, bp | S | 15200 |
| | UMD PDU heade | r, 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 bi | ts/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 | RAB/signalli | ng RB | SRB#0 | SRB#5 | |
|---------|---------------------------------|-----------------|--------------------------------|-------|--|
| layer | User of Radio Bearer | | RRC | RRC | |
| RLC | Logical channel type | | CCCH | BCCH | |
| | RLC mode | | UM | TM | |
| | Payload size | es, bit | 152 | 166 | |
| | Max data ra | te, bps | 15200 | 16600 | |
| | AMD/UMD/ | ΓrD PDU header, | 8 | 0 | |
| | bit | | | | |
| MAC | MAC heade | r, bit | 8 | 2 | |
| IVIAC | MAC multiplexing | | 2 logical channel multiplexing | | |
| Layer 1 | TrCH type | | FACH | | |
| | TB sizes, bit | t | 168 | | |
| | TFS | TF0, bits | 0x168 | | |
| | 1173 | TF1, bits | 1x | 168 | |
| | TTI, ms | | 10 | | |
| | Coding type | | CC | C 1/3 | |
| | CRC, bit Max number of bits/TTI | | 16 | | |
| | | | 576 | | |
| | before rate i | matching | | | |
| | RM attribute |) | 200 |)-240 | |

6.10.2.4.3.4.1.3 TFCS

| TFCS size | 3 |
|-----------|--------------------------------------|
| TFCS | (RB for CTCH, SRBs for CCCH/ BCCH) = |
| | (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/ Background RAB | RRC | RRC | RRC | NAS_DT High prio | NAS_DT 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 | |
| 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 | | | 10 | 6 | | | |
| | Max number of bits/TTI after channel coding | 768 | 384 | 384 | 384 | 384 | 384 | |
| | Max number of bits/ Radio frame before rate matching | 384 (alt. 768) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 384) | 192 (alt. 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 |

6.10.3 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 ^[3] | SSD ^[3] | Max. rate, kbps | CS/PS |
|----|------------------------------|--------------------|-----------------|-------|
| 1 | Conversational | Speech | UL:12.2 DL:12.2 | CS |
| 2 | Conversational | Speech | UL:10.2 DL:10.2 | CS |
| 3 | Conversational | Speech | UL:7.95 DL:7.95 | CS |
| 4 | Conversational | Speech | UL:7.4 DL:7.4 | 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 |
| 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 | Streaming | Unknown | UL:0 DL:64 | CS |
| 16 | Streaming | Unknown | UL:64 DL:0 | CS |
| 17 | Streaming | Unknown | UL:0 DL:128 | CS |
| 18 | Streaming | Unknown | UL:128 DL:0 | CS |
| 19 | Streaming | Unknown | UL:0 DL:384 | CS |
| 20 | Interactive or Background | N/A | UL:32 DL:8 | PS |
| 21 | Interactive or Background | N/A | UL:64 DL:8 | PS |
| 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 | Interactive or Background | N/A | UL:384 DL:2048 | PS |
| 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 |

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. 40.8) DCCH SCCPCH 5 UL:16.6 CCCH PRACH 6 DL:30.4 (alt. 45.6) CCCH SCCPCH SCCPCH DL:33.2 (alt. 49.8) 7 BCCH: DL:24 (alt. 6.4) SCCPCH 8 **PCCH** 9 UL:16.8 SHCCH **PRACH**

SHCCH

SHCCH

SHCCH

PRACH or PUSCH

SCCPCH SCCPCH or PDSCH

Table 6.10.3.1.2: Signalling RBs

6.10.3.2 Combinations of RABs and Signalling RBs

UL:16.8

DL:16

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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- 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.
- 5) Conversational / speech / UL:10.2 DL:10.2 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.
- 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) Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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 + 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.
- 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) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:128 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:384 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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.
- 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.
- 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) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
 - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
 - + Streaming / unknown / UL:0 DL:128 kbps / CS 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: 16.8 DL: 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: 16.8 DL: 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 DL: 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 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.

Combinations on PRACH

- 1) Interactive or background / UL:32 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

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

6.10.3.4 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 | | 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 | eader, 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 | | | | |
| | TFS | TF0, bits | 0x148 | | | | |
| | | TF1, bits | | 1x′ | 148 | | |
| | TTI, ms | TTI, ms | | 80 | | | |
| | Coding type | Coding type | | CC 1/3 | | | |
| | CRC, bit | | | 16 | | | |
| | Max number of bits | Max number of bits/TTI before rate | | 516 | | | |
| | matching | | | | | | |
| | | /radio frame before | | 6 | 5 | | |
| | rate matching | | | | | | |

6.10.3.4.1.1.1.2 TFCS

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

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 | 238 |
| | TFCI code word | 4 bit |
| | TPC | 2 bit |
| | Puncturing Limit | 1 |

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 | | 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 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 | | 4 logical channel multiplexing | | | |
| Layer 1 | TrCH type | | DCH | | | |
| | TB sizes, bit | | 148 | | | |
| | TFS | TF0, bits | 0 x148 | | | |
| | | TF1, bits | 1x148 | | | |
| | TTI, ms | | 80 | | | |
| | Coding type | | CC 1/3 | | | |
| | CRC, bit | | 16 | | | |
| | Max number of bits/TTI before rate | | | 5 | 16 | |
| | matching | matching | | | | |
| | Max number of bits/radio frame before | | | 6 | 5 | |
| | rate matching | | | | | |

6.10.3.4.1.1.2.1.2 TFCS

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

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 | 240 bits |
| | TFCI code word | 4 bits |
| | Puncturing limit | 1 |

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 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 | | 3400 | 3200 | 3200 | 3200 |
| | AMD/UMD PDU heade | r, 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 | | | |
| | TFS T | F0, bits | 0x148 | | | |
| | T | F1, bits | | 1x1 | 48 | |
| | TTI, ms | | 40 | | | |
| | Coding type | | CC 1/3 | | | |
| | CRC, bit | | 16 | | | |
| | Max number of bits/TTI | Max number of bits/TTI before rate | | 51 | 6 | |
| | matching Max number of bits/radio frame before rate matching | | | | | |
| | | | | 12 | 29 | |
| | | | | | | |
| | RM attribute | | | 155- | 165 | |

6.10.3.4.1.2.1.1.2 TFCS

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

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 | 238 bits |
| | TFCI code word | 4 bits |
| | TPC | 2 bit |
| | Puncturing Limit | 1 |

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 | | SRB#1 | SRB#2 | SRB#3 | SRB#4 | |
|--------------|---------------------------------------|------------------|--------------------------------|-------|-----------|----------|--|
| | User of Radio Bear | er | 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 | ader, 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 | | | | |
| | TFS | TF0, bits | 0x148 | | | | |
| | | TF1, bits | 1x148 | | | | |
| | TTI, ms | | 40 | | | | |
| | Coding type | | CC 1/3 | | | | |
| | CRC, bit | | 16 | | | | |
| | Max number of bits | /TTI before rate | | 5′ | 16 | | |
| | | matching | | | | | |
| | Max number of bits/radio frame before | | before 129 | | 29 | | |
| | rate matching | | | | | | |
| | RM attribute | | | 155- | ·165 | | |

6.10.3.4.1.2.2.1.2 TFCS

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

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 | 240 |
| | TFCI code word | 4 bits |
| | Puncturing limit | 1 |

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 | 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 | eader, 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 | | | |
| | TFS | TF0, bits | 0x148 | | | |
| | | TF1, bits | 1x148 | | | |
| | TTI, ms | | 10 | | | |
| | Coding type | | CC 1/3 | | | |
| | CRC, bit | | 16 | | | |
| | Max number of bits/TTI before rate | | 516 | | | |
| | matching | | | | | |
| | Max number of bits | /radio frame before | | 5′ | 16 | |
| | rate matching | | | | | |

6.10.3.4.1.3.1.1.2 TFCS

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

6.10.3.4.1.3.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 512 cips |
|-------------|--------------------------------------|----------------------------|
| | Codes and time slots | SF8 x 1 code x 1 time slot |
| | Max. Number of data bits/radio frame | 476 bits |
| | TFCI code word | 4 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.92 |

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 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 | eader, bit | 8 | 16 | 16 | 16 | |
| MAC | MAC header, bit | | 4 | 4 | 4 | 4 | |
| | MAC multiplexing | | | 4 logical chanr | nel multiplexing | | |
| Layer 1 | TrCH type | TrCH type | | DCH | | | |
| | TB sizes, bit | | | 1- | 48 | | |
| | TFS | TF0, bits | 0x148 | | | | |
| | | TF1, bits | 1x148 | | | | |
| | TTI, ms | | 10 | | | | |
| | Coding type | | | CC | 1/3 | | |
| | CRC, bit | | 16 | | | | |
| | Max number of bits/TTI before rate | | 516 | | | | |
| | matching | matching | | | | | |
| | Max number of bits/radio frame before | | | 5 | 16 | | |
| | rate matching | | | | | | |

6.10.3.4.1.3.2.1.2 TFCS

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

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 | 484 bits |
| | TFCI code word | 4 bits |
| | Puncturing limit | 0.92 |

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 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 (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 (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 25.212).

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.

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) |

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 | 0.84 |

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 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, 39, 81 | 103 | 60 | |
| | Max data ra | ate, bps | | 12200 | | |
| | TrD PDU h | eader, bit | | 0 | | |
| MAC | MAC heade | er, bit | | 0 | | |
| | MAC multip | lexing | | N/A | | |
| Layer 1 | TrCH type | | DCH | DCH | DCH | |
| | TB sizes, bit | | 0 39 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 | Э | 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 attribut | e | 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). CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if NOTE 2: there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

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) |

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 | 0.88 |

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 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 (alt. 0, 39, 65) | 99 | 40 |
| | Max data | rate, bps | | 10200 | |
| | TrD PDU | header, bit | | 0 | |
| MAC | MAC hea | ader, bit | | 0 | |
| | MAC mu | Itiplexing | | N/A | |
| Layer 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 |
| | | TF1, bits | 1x39 | 1x99 | 1x40 |
| | | TF2, bits | 1x65 | 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 number of bits/TTI after channel coding | | 255 | 321 | 96 |
| | Max number of bits/radio frame before 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).

6.10.3.4.1.5.1.1.2 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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

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 | 0.48 |

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 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, 39, 65 | 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 | 0 39 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 at channel coding | fter 255 | 321 | 96 |
| | Max number of bits/radio before rate matching | frame 128 | 161 | 48 |
| | 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). CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if NOTE 2: there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

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) |

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 | 0,48 |

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 | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|---------|--|-------------------------------|-------------------------|--|
| Layer | | | | |
| RLC | Logical channel type | DTC | DTCH | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 75 (alt. 0, 39, 75) | 84 | |
| | Max data rate, bps | 795 | 7950 | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | 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 | |
| | 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 | v#1 any time since numb | |
| | of TrBlks are 1 even if there is no data on RAB subf | low#1 (see clauses 4.2.1.1 in | TS 25.212). | |

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) |

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 | 0.52 |

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 Layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|-----------------|---|----------------|----------------|--|
| RLC | Logical channel type | TO | СН | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 0, 39, 75 | 84 | |
| | Max data rate, bps | 79 | 7950 | |
| | TrD PDU header, bit | | 0 | |
| MAC | MAC header, bit | | 0 | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 0, 39, 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 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 matching | 143 | 138 | |
| | 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).

6.10.3.4.1.6.2.1.2 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) |

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 | 0,52 |

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 Layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|-----------------|---|-------------------------|------------------------------|--|
| RLC | Logical channel type | DT | DTCH | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 39, 61 (alt. 0, 39, 61) | 87 | |
| | Max data rate, bps | 74 | 7400 | |
| | TrD PDU header, bit | |) | |
| MAC | MAC header, bit | |) | |
| | MAC multiplexing | N | /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 coo | ding 243 | 285 | |
| | Max number of bits/radio frame before ra | ite 122 | 143 | |
| | matching | | | |
| | RM attribute | 180-220 | 170-210 | |
| | CRC parity bits are to be attached to RAB s no data on RAB subflow#1 (see clause 4.2. | | rBlks are 1 even if there is | |

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) |

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 | 0.56 |

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 Layer | RAB/Signa | alling RB | RAB subflow #1 | RAB subflow #2 |
|-----------------|---|------------------|----------------|----------------|
| RLC | Logical channel type | | DTCH | |
| | RLC mode | | TM | TM |
| | Payload sizes, bit | | 0, 39, 61 | 87 |
| | Max data rate, bps | | 7400 | |
| | TrD PDU header, bit | | 0 | |
| MAC | MAC header, bit | | 0 | |
| | MAC multiplexing | | N/A | |
| Layer 1 | TrCH type | | DCH | DCH |
| | TB sizes, | DCH 0, 39, 61 | 87 | |
| | TFS | TF0, bits | 1x0 (note 2) | 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 |
| | 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 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).

6.10.3.4.1.7.2.1.2 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) |

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 | 0,56 |

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 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 | 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 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 | |
| | 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 25.212). | | | |

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.

6.10.3.4.8.1.1.3 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) |

6.10.3.4.1.8.1.2 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 | 0.60 |

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 Layer | RAB/Signa | alling RB | RAB subflow #1 | RAB subflow #2 |
|-----------------|---|-------------------------------------|----------------|----------------|
| RLC | Logical channel type | | DTCH | |
| | RLC mode | | TM | TM |
| | Payload si | zes, bit | 0, 39, 58 | 76 |
| | Max data i | ate, bps | 6700 | |
| | TrD PDU ł | neader, bit | | 0 |
| MAC | MAC head | ler, bit | | 0 |
| | 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 numb | er 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 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).

6.10.3.4.1.8.2.1.2 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) |

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 | 0,6 |

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 Layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------------------|---|-------------------------|----------------|
| RLC Logical channel type | | 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 | |
| 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 |
| | Max number of bits/radio frame before rate matching | 113 | 107 |
| | 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 25.212).

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) |

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 | 0.64 |

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 Layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|-----------------|---|----------------|----------------|--|
| RLC | Logical channel type | DTO | DTCH | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 0, 39, 55 | 63 | |
| | Max data rate, bps | 590 | 00 | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 0, 39, 55 | 63 | |
| | TFS TF0, bits | 1x0 (note 2) | 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 matching | 113 | 107 | |
| | 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).

6.10.3.4.1.9.2.1.2 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) |

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 | 0,64 |

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

Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB 6.10.3.4.1.10.1.1

| Higher 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 | 5150 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | 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 |

of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.10.1.1.3 **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) |

6.10.3.4.1.10.1.2 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 | 0.68 |

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 Layer | RAB/Signalling RE | 3 | RAB subflow #1 | RAB subflow #2 |
|-----------------|----------------------------|----------------------------|----------------|----------------|
| RLC | Logical channel type | | DT | СН |
| | RLC mode | | TM | TM |
| | Payload sizes, bit | | 0, 39, 49 | 54 |
| | Max data rate, bps | 3 | 51 | 50 |
| | TrD PDU header, | bit | | 0 |
| MAC | MAC header, bit | | 0 | |
| | MAC multiplexing | | N/A | |
| Layer 1 | TrCH type | | DCH | DCH |
| | TB sizes, bit | | 0, 39, 49 | 54 |
| | TFS TF0, | oits | 1x0 (note 2) | 0x54 |
| | (note 1) TF1, I | oits | 1x39 | 1x54 |
| | TF2, I | oits | 1x49 | N/A |
| | TTI, ms | | 20 | 20 |
| | Coding type | | CC 1/3 | CC 1/3 |
| | CRC, bit | | 12 | N/A |
| | Max number of bit | s/TTI after channel coding | 207 | 186 |
| | Max number of bit matching | s/radio frame before rate | 104 | 93 |
| | 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).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.10.2.1.3 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) |

6.10.3.4.1.10.2.2 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 | 0.68 |

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 | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|---------|---|-------------------------|----------------|
| Layer | | | |
| RLC | Logical channel type | DTCH | |
| | RLC mode | TM | TM |
| | Payload sizes, bit | 39, 42 (alt. 0, 39, 42) | 53 |
| | Max data rate, bps | 4750 | |
| | TrD PDU header, bit | 0 | |
| MAC | MAC header, bit | 0 | |
| | MAC multiplexing | 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 25.212).

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.11.1.3 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) |

6.10.3.4.1.11.1.2 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 | 0.68 |

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 Layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | |
|-----------------|---|----------------|----------------|--|
| RLC | Logical channel type | DT | DTCH | |
| | RLC mode | TM | TM | |
| | Payload sizes, bit | 0, 39, 42 | 53 | |
| | Max data rate, bps | 4750 | | |
| | TrD PDU header, bit | 0 | | |
| MAC | MAC header, bit | 0 | | |
| | MAC multiplexing | N/A | | |
| Layer 1 | TrCH type | DCH | DCH | |
| | TB sizes, bit | 0, 39, 42 | 53 | |
| | TFS TF0, bits | 1x0 (note 2) | 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 matching | 93 | 92 | |
| | 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).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.11.2.1.3 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) |

6.10.3.4.1.11.2.2 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 | 0,72 |

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 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 |
| | Max number of bits/radio frame before rate matching | 891 |
| | 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 | 6 |
|-----------|--|
| TFCS | (28.8 kbps RAB, DCCH)= |
| | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.3.4.1.12.1.2 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 |

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

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 | 0.44 |

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

6.10.3.4.1.13.1 Uplink

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 | RAB/Signalling RB | | RAB |
|---------|--|-------------------------------|-------------------|
| Layer | | | DTOLL |
| RLC | Logical channel type | | DTCH |
| | RLC mode | | TM |
| | Payload sizes, bit | | 640 |
| | Max data rate, b | ps | 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(alt. 4x640) |
| | TTI, ms | | 20(alt. 40) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of l | oits/TTI after channel coding | 3948(alt. 7884) |
| | Max number of bits/radio frame before rate | | 1974(alt. 1971) |
| | 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) |

6.10.3.4.1.13.1.2 Physical channel parameters

| DPCH Uplink Midamble | | 512 chips |
|----------------------|----------------------|--|
| | Codes and time slots | {SF16 x 1 code + SF4 x 1 code} x 1 time slot |
| | Max. Number of data | 1210 bits |
| | | |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 |

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 RLC | Logical channel type | | DTCH |
| | 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(alt. 4x640) |
| | TTI, ms | | 20(alt. 40) |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI after channel coding | | 3948(alt. 7884) |
| | Max number of | bits/radio frame before rate | 1974(alt. 1971) |
| | 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) |

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 | 1212 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 0,56 |

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 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) | |
| | Max number of bits/radio frame before rate | 990(alt. 987) | |
| | 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.

6.10.3.4.1.13.1.1.3 TFCS

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

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 | 936 bits |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.80 |

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 | 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) |
| | Max number of bits/radio frame before rate | 990(alt. 987) |
| | 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) |

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 | 724 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 0.64 |

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) |

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 | 468 bits |
| | TFCI code word | 8 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.80 |

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 Layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| INLO | 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 |

6.10.3.4.1.15.2.1.2 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) |

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 | 480 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 0,8 |

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

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 |

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

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 |

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 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 |
| | 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) |

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 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 |
| | Max number of bits/radio frame before rate | 1779 |
| | matching | |
| | RM attribute | 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) |

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 Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.18.1 Uplink

6.10.3.4.1.18.1.1 Transport channel parameters

6.10.3.4.1.18.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.18.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.10.3.4.1.18.1.2 Physical channel parameters

See clause 6.10.3.4.1.2.1.2.

6.10.3.4.1.18.2 Downlink

6.10.3.4.1.18.2.1 Transport channel parameters

6.10.3.4.1.18.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

| Higher Layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 320 |
| | 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 | 320 |
| | TFS TF0, bits | 0x320 |
| | TF1, bits | 1x320 |
| | TF2, bits | 2x320 |
| | TF3, bits | 4x320 |
| | TF4, bits | 8x320 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8076 |
| | Max number of bits/radio frame before rate | 2019 |
| | matching | |
| | RM attribute | 125-165 |

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.18.2.1.3 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) |

6.10.3.4.1.18.2.2 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 | 0,56 |

6.10.3.4.1.19 Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.19.1 Uplink

6.10.3.4.1.19.1.1 Transport channel parameters

6.10.3.4.1.19.1.1.1 Transport channel parameters for Streaming / unknown / UL:64 kbps / CS or PS RAB

| Higher Layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 320 |
| | 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 | 320 |
| | TFS TF0, bits | 0x320 |
| | TF1, bits | 1x320 |
| | TF2, bits | 2x320 |
| | TF3, bits | 4x320 |
| | TF4, bits | 8x320 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 8076 |
| | Max number of bits/radio frame before rate matching | 2019 |
| | RM attribute | 125-165 |

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.19.1.1.3 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) |

6.10.3.4.1.19.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 512 chips |
|-------------|--------------------------------------|--------------------------------|
| | Codes and time slots | {SF16 x 1 code + SF4 x 1 code} |
| | | x 1 time slot |
| | Max. Number of data bits/radio frame | 1202 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 |

6.10.3.4.1.19.2 Downlink

6.10.3.4.1.19.2.1 Transport channel parameters

6.10.3.4.1.19.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.19.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.1.19.2.2 Physical channel parameters

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.1.20 Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.20.1 Uplink

6.10.3.4.1.20.1.1 Transport channel parameters

6.10.3.4.1.20.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.20.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.10.3.4.1.20.1.2 Physical channel parameters

See clause 6.10.3.4.1.2.1.2.

6.10.3.4.1.20.2 Downlink

6.10.3.4.1.20.2.1 Transport channel parameters

6.10.3.4.1.20.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

| Higher Layer | RAB/Sigr | nalling RB | RAB |
|-----------------|---|--------------------------------------|---------|
| RLC | Logical channel type | | DTCH |
| IXLO | RLC mod | | TM |
| | Payload | | 320 |
| | | rate, bps | 128000 |
| | | header, bit | 0 |
| MAC | MAC hea | | 0 |
| | MAC mul | | N/A |
| Layer 1 | TrCH type | | DCH |
| ľ | TB sizes, bit | | 320 |
| | TFS | TF0, bits | 0x320 |
| | | TF1, bits | 1x320 |
| | | TF2, bits | 2x320 |
| | | TF3, bits | 4x320 |
| | | TF4, bits | 8x320 |
| | | TF5, bits | 16x320 |
| | TTI, ms | | 40 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max num | ber of bits/TTI after channel coding | 16152 |
| | Max number of bits/radio frame before rate matching | | 4038 |
| | RM attribute | | 125-165 |

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.20.2.1.3 TFCS

| TFCS size | 12 |
|-----------|--|
| TFCS | (128 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) |

6.10.3.4.1.20.2.2 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 | 0,52 |

6.10.3.4.1.21 Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.21.1 Uplink

6.10.3.4.1.21.1.1 Transport channel parameters

6.10.3.4.1.21.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / CS or PS RAB

| Higher Layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 128000 |
| | TrD PDU header, bit | 0 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 320 |
| | TFS TF0, bits | 0x320 |
| | TF1, bits | 1x320 |
| | TF2, bits | 2x320 |
| | TF3, bits | 4x320 |
| | TF4, bits | 8x320 |
| | TF5, bits | 16x320 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 16152 |
| | Uplink: Max number of bits/radio frame before | 4038 |
| | rate matching | |
| | RM attribute | 125-165 |

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.21.1.1.3 TFCS

| TFCS size | 12 |
|-----------|---|
| TFCS | (128 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) |

6.10.3.4.1.21.1.2 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 | 0.48 |

6.10.3.4.1.21.2 Downlink

6.10.3.4.1.21.2.1 Transport channel parameters

6.10.3.4.1.21.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

277

N/A

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.21.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.21.2.2 Physical channel parameters

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.1.22 Streaming / unknown / UL:0 DL:384 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.22.1 Uplink

6.10.3.4.1.22.1.1 Transport channel parameters

6.10.3.4.1.22.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.22.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.10.3.4.1.22.1.2 Physical channel parameters

See clause 6.10.3.4.1.2.1.2.

6.10.3.4.1.22.2 Downlink

6.10.3.4.1.22.2.1 Transport channel parameters

6.10.3.4.1.22.2.1.1 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS RAB

| Higher | RAB/Signalling RB | RAB |
|---------|---|---------|
| Layer | | |
| RLC | Logical channel type | DTCH |
| | RLC mode | TM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 384000 |
| | TrD PDU header, bit | 0 |
| MAC | MAC header, bit | 0 |
| | MAC multiplexing | N/A |
| Layer 1 | TrCH type | DCH |
| | TB sizes, bit | 320 |
| | TFS TF0, bits | 0x320 |
| | TF1, bits | 1x320 |
| | TF2, bits | 2x320 |
| | TF3, bits | 4x320 |
| | TF4, bits | 8x320 |
| | TF5, bits | 16x320 |
| | TF6, bits | 32x320 |
| | TF7, bits | 48x320 |
| | TTI, ms | 40 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel coding | 48432 |
| | Max number of bits/radio frame before rate | 12108 |
| | matching | |
| | RM attribute | 110-150 |

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.22.2.1.3 TFCS

| TFCS size | 16 |
|-----------|---|
| TFCS | (384 kbps RAB, DCCH)= |
| | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), |
| | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1) |

6.10.3.4.1.22.2.2 Physical channel parameters

| 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 |

6.10.3.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

6.10.3.4.1.23.1 Uplink

6.10.3.4.1.23.1.1 Transport channel parameters

6.10.3.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 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 | 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) |
| | Max number of bits/radio frame before rate matching | 1062 (alt. 1080) |
| | 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 (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)) |

6.10.3.4.1.23.1.2 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 | 0.76 |

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 | RAB/Signalling RB | RAB |
|---------|---|------------------|
| Layer | | |
| 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) |
| | Max number of bits/radio frame before rate | 267 (alt. 270) |
| | matching | · |
| | RM attribute | 135-175 |

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23.2.1.3 TFCS

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

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 | 236 bits |
| | TFCI code word | 8 bits |
| | Puncturing limit | 0.56 |

6.10.3.4.1.24 Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

D00..

6.10.3.4.1.24.1 Uplink

6.10.3.4.1.24.1.1 Transport channel parameters

6.10.3.4.1.24.1.1.1 Transport channel parameters for Interactive or background / UL:64 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 | 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 matching | 2118 |
| | RM attribute | 130-170 |

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.24.1.1.3 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) |

6.10.3.4.1.24.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 512 chips |
|-------------|--------------------------------------|--------------------------------|
| | Codes and time slots | {SF16 x 1 code + SF4 x 1 code} |
| | | x 1 time slot |
| | Max. Number of data bits/radio frame | 1202 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 |

6.10.3.4.1.24.2 Downlink

See clause 6.10.3.4.1.23.2.

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 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 matching | 2118 |
| | 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) |

6.10.3.4.1.25.2.2 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 |

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

See clause 6.10.3.4.1.24.1.

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 6.10.3.4.1.24.1.

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 Layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| 0 | 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 |
| | Max number of bits/radio frame before rate | 4230 |
| | matching | |
| | 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) |

6.10.3.4.1.27.2.2 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 |

6.10.3.4.1.28 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 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 |
| | Max number of bits/radio frame before rate matching | 4230 |
| | 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 | 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) |

6.10.3.4.1.28.1.2 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 | 0.48 |

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 6.10.3.4.1.24.1.

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 | RAB/Signalling RB | RAB |
|---------|---|---------|
| Layer | | |
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | 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 |
| | 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 | 4758 |
| | matching | |
| | 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) |

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 Layer | RAB/Signalling RB | RAB |
|-----------------|---|---------|
| RLC | Logical channel type | DTCH |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | 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 |
| | 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 number of bits/TTI after channel coding | 9516 |
| | Max number of bits/radio frame before rate | 4758 |
| | matching | |
| | 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) | |

6.10.3.4.1.30.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 256 chips |
|-------------|--------------------------------------|--------------------------------|
| | Codes and time slots | {SF16 x 1 code + SF2 x 1 code} |
| | | x 1 time slot |
| | Max. Number of data bits/radio frame | 2466 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.52 |

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 6.10.3.4.1.24.1.

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 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) |
| | RM attribute | | 135-175 |

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.31.2.1.3 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)) | |

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

6.10.3.4.1.32.1 Uplink

See clause 6.10.3.4.1.24.1.

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 | 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 |

| Higher Layer | RAB/Sig | nalling RB | RAB |
|-----------------|---|---------------------------------------|--------------------|
| Layer 1 | TrCH type | | DCH |
| | TB sizes | | 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 | t e | 16 |
| | Max nun | nber 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 UL: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)) |

6.10.3.4.1.32.2.2 Physical channel parameters

| 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 |

6.10.3.4.1.33 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 Layer | RAB/Sigr | nalling RB | RAB |
|-----------------|--|--------------------------------------|--------------------|
| RLC | Logical channel type | | DTCH |
| | RLC mod | le | AM |
| | Payload s | sizes, bit | 320 |
| | Max data | rate, bps | 384000 |
| | AMD PDI | J header, bit | 16 |
| MAC | MAC hea | der, bit | 0 |
| | MAC mul | tiplexing | N/A |
| Layer 1 | TrCH type | e | DCH |
| | TB sizes, | | 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 num | ber of bits/TTI after channel coding | 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 | 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)) |

6.10.3.4.1.34.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 256 chips |
|-------------|--------------------------------------|-----------------------------|
| | Codes and time slots | SF2 x 1 code x 3 time slots |
| | Max. Number of data bits/radio frame | 6480 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

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

See clause 6.10.3.4.1.24.1.

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 | 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 |
| i | Max number of bits/TTI after channel coding | 64575 (alt. 129141) |

| Higher Layer | RAB/Signalling RB | RAB |
|-----------------|---|--------------------|
| | Max number of bits/radio frame before rate matching | 64575 (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 | 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)) |

6.10.3.4.1.35.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 256 chips |
|---------------|--------------------------------------|-----------------------------|
| | Codes and time slots | SF1 x 1 code x 12 time slot |
| | Max. Number of data bits/radio frame | 52976 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0,80 |

6.10.3.4.1.36 Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.36.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.36.2 Downlink

See clause 6.10.3.4.1.35.2.

6.10.3.4.1.37 Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.37.1 Uplink

See clause 6.10.3.4.1.34.1.

6.10.3.4.1.37.2 Downlink

See clause 6.10.3.4.1.35.2.

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

6.10.3.4.1.38.1 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 (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, 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)) |

6.10.3.4.1.38.1.2 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 | 0.56 |

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, 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) |

6.10.3.4.1.38.2.2 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 | 0,60 |

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, 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) |

6.10.3.4.1.39.2.2 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 6.10.3.4.1.24.1.1.1.

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

| 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, 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) |

6.10.3.4.1.40.1.2 Physical channel parameters

| 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 | 0.68 |

6.10.3.4.1.40.2 Downlink

See clause 6.10.3.4.1.39.2.

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

| 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) |

6.10.3.4.1.41.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 256 chips |
|---------------|--------------------------------------|-------------------------------|
| | Codes and time slots | SF16 x 10 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2744 bits |
| | TFCI code word | 16 bits |
| | Puncturing limit | 0,56 |

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

See clause 6.10.3.4.1.40.1.

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, 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, 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, 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)) |

6.10.3.4.1.42.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 256 chips |
|---------------|--------------------------------------|--------------------------------|
| | Codes and time slots | SF16 x 10 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 5504 bits |
| | TFCI code word | 16 bits |
| | 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

| 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, 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, TF0, TF0, TF0, TF0, TF0, |
| | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), |
| | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, 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, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1) |
| | (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
| | 1(5, 5, 5, 5, 5, 5, 5, 5, 7, (2, 1, 1, 6, 1) |

6.10.3.4.1.43.2.2 Physical channel parameters

| 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 |

6.10.3.4.1.44 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, 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), |
| | (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) |

6.10.3.4.1.44.1.2 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 | 2724 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.56 |

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) |
|-----------|---|
| 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), (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), (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)) |

6.10.3.4.1.44.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 256 chips |
|---------------|--------------------------------------|------------------------------|
| | Codes and time slots | SF1 x 1 code x 12 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, 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) |

6.10.3.4.1.45.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 512 chips |
|-------------|--------------------------------------|-------------------------------|
| | Codes and time slots | {SF8 x 1 code + SF4 x 1 code} |
| | | x 1 time slot |
| | Max. Number of data bits/radio frame | 1428 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.60 |

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 6.10.3.4.1.2.2.11.

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, 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) |

6.10.3.4.1.45.2.2 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 | 0,6 |

6.10.3.4.1.46 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.46.1 Uplink

See clause 6.10.3.4.1.4.1.

6.10.3.4.1.46.2 Downlink

6.10.3.4.1.46.2.1 Transport channel parameters

6.10.3.4.1.46.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.46.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB See clause 6.10.3.4.1.18.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.46.2.1.4 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, 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) |

6.10.3.4.1.46.2.2 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 | 0,8 |

6.10.3.4.1.47 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.47.1 Uplink

See clause 6.10.3.4.1.4.1.

6.10.3.4.1.47.2 Downlink

6.10.3.4.1.47.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.47.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

See clause 6.10.3.4.1.20.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.47.2.1.4 TFCS

| TFCS size | 36 |
|-----------|--|
| 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, 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), |
| | (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) |

6.10.3.4.1.47.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 256 chips |
|---------------|--------------------------------------|-------------------------------|
| | Codes and time slots | SF16 x 10 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2728 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0,56 |

6.10.3.4.1.48 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:384 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.48.1 Uplink

See clause 6.10.3.4.1.4.1.

6.10.3.4.1.48.2 Downlink

6.10.3.4.1.48.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.48.2.1.2 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS RAB

See clause 6.10.3.4.1.22.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.48.2.1.4 TFCS

| TFCS size | 48 |
|-----------|--|
| 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, 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, 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, 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), |
| | (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) |

6.10.3.4.1.48.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 256 chips |
|---------------|--------------------------------------|--------------------------------|
| | Codes and time slots | SF16 x 10 codes x 3 time slots |
| | Max. Number of data bits/radio frame | 8248 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0,64 |

Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB 6.10.3.4.1.49

+ 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, 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) |

6.10.3.4.1.49.1.2 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 6.10.3.4.1.2.2.11.

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, 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) |

6.10.3.4.1.49.2.2 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 | 0,88 |

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 6.10.3.5.4.1.13.1.1.1.

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) |

6.10.3.4.1.50.1.2 Physical channel parameters

| DPCH Uplink | Midamble | 512 chips |
|-------------|--------------------------------------|---------------------------|
| | Codes and time slots | SF1 x 1 code x 1time slot |
| | Max. Number of data bits/radio frame | 3616 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.88 |

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)= (TEO, TEO, TEO, TEO, TEO, TEO, TEO, TEO, |
| | (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

6.10.3.4.1.50.2.2 Physical channel parameters

| DPCH Downlink | Midamble | 512 chips |
|---------------|--------------------------------------|-------------------------------|
| | Codes and time slots | SF16 x 11 codes x 1 time slot |
| | Max. Number of data bits/radio frame | 2668 bits |
| | 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 6.10.3.4.1.24.1.1.1.

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) |

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 |

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) |

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 |

6.10.3.4.1.52 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) |

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) |

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 1 time slot} + |
| | | {SF16 x 1 code + SF4 x 1 code} x 1 time slot |
| | Max. Number of data bits/radio frame | 3154 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 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 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.54.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.54.2 Downlink

6.10.3.4.1.54.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.54.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB See clause 6.10.3.4.1.18.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.54.2.1.4 TFCS

| TFCS size | 50 |
|-----------|--|
| TFCS | (I/B 128 kbps RAB, Str. 64 kbps RAB, 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, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0), |
| | (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0), |
| | (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, 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), |
| | (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1), |
| | (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1), |
| | (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1) |

6.10.3.4.1.54.2.4 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 | 3140 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0,68 |

6.10.3.4.1.55 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.55.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.55.2 Downlink

6.10.3.4.1.55.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.55.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

See clause 6.10.3.4.1.20.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.55.2.1.4 TFCS

| TFCS size | 60 |
|-----------|--|
| TFCS | (I/B 128 kbps RAB, Str. 128 kbps RAB, 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, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0), |
| | (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0), |
| | (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, TF0), |
| | (TF0, TF5, TF0), (TF1, TF5, TF0), (TF2, TF5, TF0), (TF3, TF5, TF0), (TF4, TF5, 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), |
| | (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1), |
| | (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1), |
| | (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1) |
| | (TF0, TF5, TF1), (TF1, TF5, TF1), (TF2, TF5, TF1), (TF3, TF5, TF1), (TF4, TF5, TF1) |

6.10.3.4.1.55.2.2 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 | 2176 bits |
| | TFCI code word | 32 bits |
| | Puncturing limit | 0,48 |

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: 16.8 DL: 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 Layer | RAB/Sig | nalling RB | RAB | SRB#5 |
|-----------------|---------------------|---------------------------------------|---------|---------|
| RLC | Logical of | channel type | DTCH | SHCCH |
| | RLC mo | de | AM | TM |
| | Payload | sizes, bit | 320 | 168 |
| | Max data | a rate, bps | 64000 | 16800 |
| | AMD/Tr[| D PDU header, bit | 16 | 0 |
| MAC | MAC he | ader, bit | 0 | 0 |
| | MAC mu | ultiplexing | N/A | N/A |
| Layer 1 | TrCH typ | De | USCH | USCH |
| | TB sizes | s, bit | 336 | 168 |
| | TFS | TF0, bits | 0x336 | 0x168 |
| | | TF1, bits | 1x336 | 1x168 |
| | | TF2, bits | 2x336 | N/A |
| | | TF3, bits | 3x336 | N/A |
| | | TF4, bits | 4x336 | N/A |
| | TTI, ms | | 20 | 10 |
| | Coding t | ype | TC | CC 1/2 |
| | CRC, bit | | 16 | 16 |
| | Max nun | nber of bits/TTI after channel coding | 4236 | 384 |
| | Max nun matching | nber of bits/radio frame before rate | 2118 | 384 |
| | RM attrib | oute | 135-175 | 180-220 |

6.10.3.4.2.1.1.1.2 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) |

6.10.3.4.2.1.1.1.3 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

| 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 header, bit | 0 | 8 | 16 | 16 | 16 | 0 |

| 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 | |
| MAC | MAC header, bit | 2 | 26 | 26 | 26 | 26 | 2 |
| | MAC multiplexing | | | 6 logical chann | el multiplexing | | |
| Layer 1 | TrCH type | CH type RACH | | | | | |
| | TB sizes, bit | 170 | 170 | 170 | 170 | 170 | 170 |
| | TFS TF0, bits | 1x170 | | | | | |
| | TTI, ms 10 | | | | | | |
| | Coding type | oding type CC ½ | | | | | |
| | CRC, bit | | | 10 | 6 | | |
| | Max number of bits/TTI after channel coding | 388 | 388 | 388 | 388 | 388 | 388 |

6.10.3.4.2.1.1.2 Physical channel parameters

| PUSCH | Midamble | 512 chips |
|-------|--------------------------------------|--------------------------------|
| | Codes and time slots | {SF16 x 1 code + SF4 x 1 code} |
| | | x 1 time slot |
| | Max. Number of data bits/radio frame | 1202 bits |
| | TFCI code word | 16 bits |
| | TPC | 2 bits |
| | Puncturing Limit | 0.48 |

| 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 | 1.0 (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 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 | 0 | 0 |
| | MAC multiplexing | N/A | N/A |
| Layer 1 | TrCH type | DSCH | DSCH |
| | TB sizes, bit | 336 | 168 |
| | TFS TF0, bits | 0x336 | 0x168 |
| | TF1, bits | 1x336 | 1x168 |
| | TF2, bits | 2x336 | N/A |
| | TF3, bits | 4x336 | N/A |
| | TF4, bits | 8x336 | N/A |
| | TF5, bits | N/A (alt. 12x336) | N/A |
| | TF6, bits | N/A (alt. 16x336) | N/A |
| | TTI, ms | 10 (alt. 20) | 10 |
| | Coding type | TC | CC 1/2 |
| | CRC, bit | 16 | 16 |
| Ì | Max number of bits/TTI after channel coding | 8460 (alt. 16908) | 384 |
| | Downlink: Max number of bits/radio frame before rate matching | 8460 (alt. 8454) | 384 |
| Ì | RM attribute | 135-175 | 180-220 |

6.10.3.4.2.1.2.1.2 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), (TF1, |
| | TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |

6.10.3.4.2.1.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| Higher | RAB/sign | alling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 |
|---------|--|-------------------------|-----------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| layer | User of R | adio Bearer | RRC | RRC | RRC | NAS_DT | NAS_DT | RRC | RRC |
| | | | | | | High prio | Low prio | | |
| RLC | | hannel type | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | BCCH |
| | RLC mod | | UM | UM | AM | AM | AM | UM | TM |
| | Payload | sizes, bit | 160 | 136 or 120 (note) | 128 | 128 | 128 | 160 | 168 |
| | Max data | rate, bps | 32000 (alt. 48000) | 27200 or 24000 (alt. 40800 or 36000) | 25600 (alt. 38400) | 25600 (alt. 38400) | 25600 (alt. 38400) | 32000 (alt. 48000) | 33600 (alt. 50400) |
| | AMD/UM header, b | D/TrD PDU 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 | ayer 1 TrCH type | | | | | FACH | | | |
| | TB sizes, | | 171 | 171 | 171 | 171 | 171 | 171 | 171 |
| | TFS | TF0, bits | 0x171 | | | | | | |
| | | TF1, bits | | 1x171 | | | | | |
| | | TF2, bits | | 2x171 | | | | | |
| | | TF3, bits | 3x171 | | | | | | |
| | | TF4, bits | | 4x171 | | | | | |
| | | TF5, bits | | | | N/A (alt. 5x171 | | | |
| | | TF6, bits | | | | N/A (alt. 6x171 |) | | |
| | TTI, ms | | | | | 20 | | | |
| | Coding ty | /pe | | | | CC 1/2 | | | |
| | CRC, bit | | / !: | 1 / !: | 1 / 1: | 16 | / !: | 1 / | |
| | Max num bits/TTI a coding | ber of lfter channel | 1528 (alt. 2292) | 1528 (alt. 2292) | 1528 (alt. 2292) | 1528 (alt. 2292) | 1528 (alt. 2292) | 1528 (alt. 2292) | 1528 (alt. 2292) |
| | Max num | | 764 (alt. | 764 (alt. | 764 (alt. | 764 (alt. | 764 (alt. | 764 (alt. | 764 (alt. |
| | bits/radio frame before rate matching | | 1146) | 1146) | 1146) | 1146) | 1146) | 1146) | 1146) |
| NOTE: | MAC hea | ader size and | RLC payload | size depend or | n use of U-RN | TI or C-RNTI. | • | | |

6.10.3.4.2.1.2.1.4 TFCS for FACH

| TFCS size | 5 (alt. 7) |
|-----------|---|
| TFCS | FACH = TF0, TF1, TF2, TF3, TF4 (alt. FACH = TF0, TF1, TF2, TF3, TF4, TF5, T F6) |

6.10.3.4.2.1.2.2 Physical channel parameters

| 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 |

| SCCPCH (burst | Midamble | 512 chips |
|---------------|--------------------------------------|------------------------------|
| type 1) | 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 | 1 |

| SCCPCH (burst | Midamble | 256 chips |
|---------------|--------------------------------------|------------------------------|
| type 2) | 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 | 1 |

6.10.3.4.2.2

Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 DL: 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 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 | 0 | 0 |
| | MAC multiplexing | N/A | N/A |
| Layer 1 | TrCH type | DSCH | DSCH |
| | TB sizes, bit | 336 | 168 |
| | TFS TF0, bits | 0x336 | 0x168 |
| | TF1, bits | 1x336 | 1x168 |
| | TF2, bits | 2x336 | N/A |
| | TF3, bits | 4x336 | N/A |
| | TF4, bits | 8x336 | N/A |
| | TF5, bits | 12x336 | N/A |
| | TF6, bits | N/A (alt. 16x336) | N/A |
| | TF7, bits | N/A (alt. 20x336) | N/A |
| | TF8, bits | N/A (alt. 24x336) | 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 | 12684 (alt. 25356) | 384 |
| | Downlink: Max number of bits/radio frame before rate matching | 12684 (alt. 12678) | 384 |
| | RM attribute | 135-175 | 180-220 |

6.10.3.4.2.2.2.1.2 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), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, |
| | TF0), (TF8, TF0)) |

6.10.3.4.2.2.2.1.3 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 6.10.3.4.2.1.2.1.3.

6.10.3.4.2.2.2.1.4 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.2.2.2 Physical channel parameters

| 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 |

| SCCPCH (burst | Midamble | 512 chips |
|---------------|--------------------------------------|------------------------------|
| type 1) | 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 | 1 |

| SCCPCH (burst | Midamble | 256 chips |
|---------------|--------------------------------------|------------------------------|
| type 2) | 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 | 1 |

6.10.3.4.2.3

Interactive or background / UL: 64 DL: 2048 kbps / PS RAB + UL: 16.8 DL: 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 | 0 | 0 |
| | MAC multiplexing | N/A | N/A |
| Layer 1 | TrCH type | DSCH | DSCH |
| | TB sizes, bit | 656 | 168 |
| | TFS TF0, bits | 0x656 | 0x168 |
| | TF1, bits | 1x656 | 1x168 |
| | TF2, bits | 2x656 | N/A |
| | TF3, bits | 4x656 | N/A |
| | TF4, bits | 8x656 | N/A |
| | TF5, bits | 12x656 | N/A |
| | TF6, bits | 16x656 | N/A |
| | TF7, bits | 20x656 | N/A |
| | TF8, bits | 24x656 | N/A |
| | TF9, bits | 28x656 | N/A |
| | TF10, bits | 32x656 | N/A |
| | TF11, bits | N/A (alt. 36x656) | N/A |
| | TF12, bits | N/A (alt. 40x656) | N/A |
| | TF13, bits | N/A (alt. 44x656) | N/A |
| | TF14, bits | N/A (alt. 48x656) | N/A |
| | TF15, bits | N/A (alt. 52x656) | N/A |
| | TF16, bits | N/A (alt. 56x656) | N/A |
| | TF17, bits | N/A (alt. 60x656) | N/A |
| | TF18, bits | N/A (alt. 64x656) | N/A |
| | TTI, ms | 10 (alt. 20) | 10 |
| | Coding type | TC | CC ½ |
| | CRC, bit | 16 | 16 |
| Ĭ | Max number of bits/TTI after channel coding | 64524 (alt. 129036) | 384 |
| | Downlink: Max number of bits/radio frame | 64524 (alt. 64518) | 384 |
| Î | before rate matching | , , , | |
| | RM attribute | 135-175 | 180-220 |

6.10.3.4.2.3.2.1.2 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), (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, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, |
| | TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1)) |

6.10.3.4.2.3.2.1.3 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 6.10.3.4.2.1.2.1.3.

6.10.3.4.2.3.2.1.4 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.3.2.2 Physical channel parameters

| PDSCH | Midamble | 256 chips |
|-------|--------------------------------------|---------------------------------|
| | Codes and time slots | SF16 x 12 codes x 11 time slots |
| | Max. Number of data bits/radio frame | 36416 bits (alt. 36400 bits) |
| | TFCI code word | 16 bits (alt. 32 bits) |
| | Puncturing Limit | 0.56 |

| SCCPCH (burst | Midamble | 512 chips |
|---------------|--------------------------------------|------------------------------|
| type 1) | 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 | 1 |

| SCCPCH (burst | Midamble | 256 chips |
|---------------|--------------------------------------|------------------------------|
| type 2) | 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 | 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.

6.10.3.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.2.

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 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 channel multiplexing | |
| Layer 1 | TrCH type | RACH | |
| | TB sizes, bit | 170 | |
| | TFS TF0, bits | 1x170 | |
| | TTI, ms | 10 | |
| | Coding type | CC 1/2 | |
| | CRC, bit | 16 | |
| | Max number of bits/TTI after channel coding | 388 | |

6.10.3.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.10.3.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.10.3.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.10.3.4.2.1.1.2.

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

See clause 6.10.3.4.2.1.2.1.2.

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 | | |
| | Logical channel type | | CCCH | SHCCH | BCCH | | |
| | RLC mod | de | UM | UM | TM | | |
| RLC | Payload | sizes, bit | 160 | 160 | 168 | | |
| | Max data | a rate, bps | 32000 | 32000 | 33600 | | |
| | UMD/TrE | PDU header, bit | 8 | 8 | 0 | | |
| MAC | MAC hea | ader, bit | | 3 | | | |
| IVIAO | MAC multiplexing | | 3 logical channel multiplexing | | | | |
| | 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 | | | | |
| Layo | TTI, ms | | 10 | | | | |
| | Coding to | ype | CC 1/2 | | | | |
| | CRC, bit | | 16 | | | | |
| | Max num | ber of bits/TTI after | 1528 | | | | |
| | channel | | | | | | |
| | Max number of bits/radio frame before rate matching | | | 764 | | | |

6.10.3.4.3.1.2.1.7 TFCS for FACH

| TFCS size | 5 |
|-----------|--------------------------------|
| TFCS | FACH = TF0, TF1, TF2, TF3, TF4 |

6.10.3.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.10.3.4.1.4.2.2.

Physical channel parameters for downlink PDSCH see clause 6.10.3.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.10.3.4.2.1.2.2.

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

See clause 6.10.3.4.2.2.2.1.2.

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

Physical channel parameters for downlink DPCH see clause 6.10.3.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.10.3.4.2.2.2.2.

Physical channel parameters for SCCPCH see clause 6.10.3.4.2.1.2.2.

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

See clause 6.10.3.4.2.3.2.1.2.

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

Physical channel parameters for downlink DPCH see clause 6.10.3.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.10.3.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.10.3.4.2.1.2.2.

6.10.3.4.4 Combinations on SCCPCH

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 | 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) |
| | TF2, bits | 2x240 (alt.2x80) |
| | TTI, ms | 20 |
| | Coding type | CC 1/2 |
| | CRC, bit | 16 |
| | Max number of bits/TTI before rate | 1056 (alt. 400) |
| | matching | |
| | Max number of bits/radio frame bet | ore 528 (alt. 200) |
| | rate matching | |
| | RM attribute | 210-250 |

6.10.3.4.4.1.1.2 TFCS

| TFCS size | 3 |
|-----------|-------------------------------|
| TFCS | SRBs for PCCH = TF0, TF1, TF2 |

6.10.3.4.2.1.2 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 | 0,88 | |

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 channel type | | DTCH | |
| | RLC mode | | AM | |
| | Payload sizes, bit | | 320 | |
| | Max data rate, bps | | 32000 | |
| | AMD PDU header, bit | | 16 | |
| MAC | MAC header, bit | | 27 | |
| IVIAC | MAC multiplexing | | N/A | |
| Layer 1 | TrCH type | | FACH | |
| | TB sizes, bit | | 363 | |
| | TF0, | bits | 0 x363 | |
| | TFS TF1, | bits | 1x363 | |
| | TF2, | bits | 2x 363 | |
| | TTI, ms | | 20 | |
| | Coding type | | TC | |
| | CRC, bit | | 16 | |
| | Max number of bits/TTI before rate matching | | 2286 | |
| | Max number of bits/radio | frame before rate | 1143 | |
| | 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/signall | ing RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | |
|---------|---|-------------------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|--|
| layer | User of Rad | lio Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC | |
| RLC | Logical char | nnel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH | |
| | RLC mode | | | UM | AM | AM | AM | TM | |
| | Payload size | Payload sizes, bit | | 136 or 120 (note) | 128 | 128 | 128 | 168 | |
| | Max data ra | te, bps | 32000 (alt. 48000) | 27200 or 2400 (alt. 40800 or 36000) | 25600 (alt. 38400) | 25600 (alt. 38400) | 25600 (alt. 38400) | 33600 (alt. 50400) | |
| | AMD/UMD/ bit | TrD PDU header, | 8 | 8 | 16 | 16 | 16 | 0 | |
| MAC | MAC heade | r, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | |
| IVIAO | MAC multip | lexing | | 6 logical channel multiplexing | | | | | |
| Layer 1 | TrCH type | | FACH | | | | | | |
| | TB sizes, bit | t | | 171 | | | | | |
| | | TF0, bits | 0x171 | | | | | | |
| | | TF1, bits | 1x171 | | | | | | |
| | | TF2, bits | 2x171 | | | | | | |
| | TFS | TF3, bits | 3x171 | | | | | | |
| | | TF4, bits | 4x171 | | | | | | |
| | | TF5, bits | N/A (alt. 5x171) | | | | | | |
| | | TF6, bits | N/A (alt. 6x171) | | | | | | |
| | TTI, ms | TTI, ms | | 20 | | | | | |
| | | Coding type | | CC ½ | | | | | |
| | CRC, bit | | 16 | | | | | | |
| | | Max number of bits/TTI before | | 1528 (alt. 2292) | | | | | |
| | | rate matching | | | | | | | |
| | | Max number of bits/radio | | 764 (alt.1146) | | | | | |
| | frame before rate matching | | | | | | | | |
| | RM attribute | 200-240 | | | | | | | |
| NOTE: | 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 | 15 (alt. 21) | |
|-----------|--|--|
| TFCS | (32kbps RAB, 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),(TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4) | |
| | (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF0, TF5), (TF0, TF6), | |
| | (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4), (TF1, TF5), (TF1, TF6), | |
| | (TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4), (TF2, TF5), (TF2, TF6)) | |

6.10.3.4.4.2.2 Physical channel parameters

(burst type 1):

| S-CCPCH | 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 | 0,6 | |

(burst type 2):

| S-CCPCH | Midamble | 256 chips |
|----------------|--------------------------------------|-----------|
| | Codes and time slots SF16 x 6 codes | |
| | Max. Number of data bits/radio frame | 1640 bits |
| TFCI code word | | 16 bits |
| | Puncturing limit | 0,68 |

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 of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.

6.10.3.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.3.1.4 TFCS

| 45 (alt.63) |
|--|
| (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, |
| TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4),(TF0, TF2, TF0), |
| (TF0, TF2, TF1), (TF0, TF2, TF2), (TF0, TF2, TF3), (TF0, TF2, 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),(TF1, TF2, TF0), (TF1, TF2, TF1), (TF1, TF2, |
| TF2), (TF1, TF2, TF3), (TF1, TF2, 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),(TF2, TF2, TF0), (TF2, TF2, TF1), (TF2, TF2, TF2), (TF2, TF3), |
| (TF2, TF2, TF4) |
| (alt. (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF0, TF1), (TF0, TF1), |
| TF0, TF5), (TF0, TF0, TF6), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF2), (TF0, TF1, TF1, TF2), (TF0, TF1, TF1, TF2), (TF0, TF1, TF1, TF2), (TF0, TF1, TF1, TF1, TF1, TF1), (TF0, TF1, TF1, TF1, TF1, TF1, TF1, TF1, TF1 |
| (TF0, TF1, TF4), (TF0, TF1, TF5), (TF0, TF1, TF6), (TF0, TF2, TF0), (TF0, TF2, TF1), (TF0, TF2, TF2) |
| TF2), (TF0, TF2, TF3), (TF0, TF2, TF4), (TF0, TF2, TF5), (TF0, TF2, TF6), (TF4, TF0, TF2), (TF4, TF2 |
| (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, TF1, TF2), (TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF1, TF2), (TF1, TF1, TF1, TF2), (TF1, TF1, TF1, TF2), (TF1, TF1, TF2), (TF1, TF1, TF1, TF2), (TF1, TF1, TF2), (TF1, TF1, TF1, TF1, TF2), (TF1, TF1, TF1, TF2), (TF1, TF1, TF1, TF2), (TF1, TF1, TF1, TF1, TF1, TF1, TF1, TF1, |
| TF0, TF5), (TF1, TF0, TF6), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF2, TF3, TF4), (TF1, TF3, TF3, TF4), (TF1, TF4, TF3, TF4), (TF1, TF4, TF3, TF4), (TF1, TF3, TF4), (TF1, TF4, TF4), (TF1, TF4 |
| (TF1, TF1, TF4), (TF1, TF1, TF5), (TF1, TF1, TF6), (TF1, TF2, TF0), (TF1, TF2, TF1), (TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF3, TF3), (TF1, TF |
| TF2), (TF1, TF2, TF3), (TF1, TF2, TF4), (TF1, TF2, TF5), (TF1, TF2, TF6), (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, TF3), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, TF3), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, TF3), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, TF3), (TF3, TF3), (TT3, TF3), (TT3, TT3), (TT3, TT3) |
| TF0, TF5), (TF2, TF0, TF6), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3), |
| (TF2, TF1, TF4), (TF2, TF1, TF5), (TF2, TF1, TF6), (TF2, TF2, TF0), (TF2, TF1, TF2, TF1), (TF2, TF2, TF2, TF2, TF2, TF2, TF2, TF2, |
| TF2), (TF2, TF3), (TF2, TF4), (TF2, TF2, TF5) (TF2, TF2, TF6)) |
| 2,, (2, 2, 2, 2, 2, 2, 3) |
| |

6.10.3.4.4.3.2 Physical channel parameters

(burst type 1):

| S-CCPCH | Midamble | 512 chips | |
|---------|--------------------------------------|------------------------------|--|
| | Codes and time slots | SF16 x 8 codes x 1 time slot | |
| | Max. Number of data bits/radio frame | 1920 bits | |
| | TFCI code word | 32 bits | |
| | Puncturing limit | 0,68 | |

(burst type 2):

| S-CCPCH | 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 | 0,64 |

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 prio | Low prio |
| 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 | 170 | 170 | 170 | 170 | 170 |
| | TFS TF0, bits | 1x170 | | | | |
| | TTI, ms | 10 | | | | |
| | Coding type | CC ½ | | | | |
| | CRC, bit | 16 | | | | |
| | Max number of | 388 | 388 | 388 | 388 | 388 |
| | bits/TTI after channel | | | | | |
| | coding | | | | | |
| | Max number of | 388 | 388 | 388 | 388 | 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. 0.75) |

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: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 layer | RAB/Signalling RB | RAB |
|-----------------|---|--------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | 65600 |
| | 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 |
| | TF2, bits | 2x336(Note1) |
| | TF3, bits | 3x336(Note1) |
| | TF4, bits | 4x336(Note1) |
| | 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 attribute | 130-170 |

Transport channel parameters for the Downlink RAB

| Higher layer | RAB/Signalling RB | RAB |
|-----------------|---|--------------|
| RLC | Logical channel type | DTCH |
| | RLC mode | UM |
| | Payload sizes, bit | 328 |
| | Max data rate, bps | 65600 |
| | 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 |
| | TF2, bits | 2x336 (note) |
| | TF3, bits | 3x336 (note) |
| | TF4, bits | 4x336 (note) |
| | TTI, ms | 20 |
| | Coding type | TC |
| | CRC, bit | 16 |
| | Max number of bits/TTI after channel of | coding 4236 |
| | RM attribute | 130-170 |
| NOTE: 1 | his TFI is not applied to TFS for RLC tes | et cases. |

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 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 | 4236 |
| | Uplink: Max number of bits/radio frame before | 2118 |
| | rate matching | |
| | RM attribute | 130-170 |

Transport channel parameters for the Downlink RAB

| Higher 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 | 4236 |
| | RM attribute | 130-170 |

6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

Transport channel parameters for the Uplink RAB

See clause 6.10.2.4.1.24.1.

Transport channel parameters for the Downlink RAB

See clause 6.10.2.4.1.25.2.

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 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 | 4236 |
| | Uplink: Max number of bits/radio frame before | 2118 |
| | rate matching | |
| | RM attribute | 130-170 |

Transport channel parameters for the Downlink RAB

| Higher 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 | 4236 |
| | 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.
- 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.
- 5) Conversational / speech / UL:10.2 DL:10.2 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.
- 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) Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 24)Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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 + 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.
- 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) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:128 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:0 DL:384 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 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.
- 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.
- 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) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
 - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
 - + Streaming / unknown / UL:0 DL:128 kbps / CS 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: 16.8 DL: 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: 16.8 DL: 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 DL: 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 32 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.

Combinations on PRACH

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

See clause 6.10.3.4.1.1.1.1.

+ 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 |
| 6.11.5.4.1.1.1.1 | Transport channel parameters |
| 6.11.5.4.1.1.1.1 | Transport channel parameters for UL:1.7 kbps SRBs for DCCH |

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 | 164 bits |
| | TFCI code word / radio frame | 4 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 | 164 bits |
| | TFCI code word / radio frame | 4 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 1 |

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 | 164 bits |
| | TFCI code word / radio frame | 4 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 1 |

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 | 164 bits |
| | TFCI code word / radio frame | 4 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 1 |

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 | 340 bits |
| | TFCI code word / radio frame | 4 bits |
| | TPC / radio frame | 2x 2 bit |
| | SS / radio frame | 2x 2 bit |
| | Puncturing Limit | 0.64 |

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 | 340 bits |
| | TFCI code word / radio frame | 4 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 0.64 |

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.

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 | 0.60 |

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 | 0.60 |

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 | 0.68 |

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 | 0.68 |

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 | 0.80 |

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.

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 | 0.80 |

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 | 0.80 |

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 | 0.80 |

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 | 0.88 |

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 | 0.88 |

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 | 0.92 |

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 | 0.92 |

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:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

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:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

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:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

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:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

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 | 0.64 |

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 | 0.64 |

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 | 1392 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 0.64 |

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 | 1392 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 0.64 |

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 | 688 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS/ radio frame | 2x 2 bits |
| | Puncturing Limit | 0.60 |

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 | 699 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 0.60 |

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 | 688 bits |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.15.2 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 | 512 bits |
| | | |
| | TFCI code word / radio frame | 8 bits |
| | TPC / radio frame | 2x 2 bits |
| | SS / radio frame | 2x 2 bits |
| | Puncturing Limit | 0.88 |

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 | 0.64 |

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 | 0.64 |

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 | 0.72 |

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 | 0.72 |

6.11.5.4.1.18 Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.18.1 Uplink

6.11.5.4.1.18.1.1 Transport channel parameters

6.11.5.4.1.18.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB N/A.

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.18.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.18.1.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.18.2 Downlink

6.11.5.4.1.18.2.1 Transport channel parameters

6.11.5.4.1.18.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB See clause 6.10.3.4.1.18.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.18.2.1.3 TFCS

See clause 6.10.3.4.1.18.2.1.3.

6.11.5.4.1.18.2.2 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 | 0.64 |

6.11.5.4.1.19 Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.19.1 Uplink

6.11.5.4.1.19.1.1 Transport channel parameters

6.11.5.4.1.19.1.1.1 Transport channel parameters for Streaming / unknown / UL:64 kbps / CS or PS RAB

See clause 6.10.3.4.1.19.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.19.1.1.3 TFCS

See clause 6.10.3.4.1.19.1.1.3.

6.11.5.4.1.19.1.2 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 | 0.64 |

6.11.5.4.1.19.2 Downlink

6.11.5.4.1.19.2.1 Transport channel parameters

6.11.5.4.1.19.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.19.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.1.19.2.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

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6.11.5.4.1.20 Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.20.1 Uplink

6.11.5.4.1.20.1.1 Transport channel parameters

6.11.5.4.1.20.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.20.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.20.1.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.20.2 Downlink

6.11.5.4.1.20.2.1 Transport channel parameters

6.11.5.4.1.20.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS

RAB

See clause 6.10.3.4.1.20.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.20.2.1.3 TFCS

See clause 6.10.3.4.1.20.2.1.3.

6.11.5.4.1.20.2.2 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 | 2x 2 bits |
| | SS/ radio frame | 2x 2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.21 Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.21.1 Uplink

6.11.5.4.1.21.1.1 Transport channel parameters

6.11.5.4.1.21.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / CS or PS

RAB

See clause 6.10.3.4.1.21.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.21.1.1.3 TFCS

See clause 6.10.3.4.1.21.1.1.3.

6.11.5.4.1.21.1.2 Physical channel parameters

| DPCH | Modulation | QPSK |
|--------|--------------------------------------|-----------------------------|
| Uplink | 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 | 0.64 |

6.11.5.4.1.21.2 Downlink

6.11.5.4.1.21.2.1 Transport channel parameters

6.11.5.4.1.21.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.21.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.21.2.2 Physical channel parameters

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.1.22 Streaming / unknown / UL:0 DL:384 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.22.1 Uplink

6.11.5.4.1.22.1.1 Transport channel parameters

 $6.11.5.4.1.22.1.1.1 \qquad \text{Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB}$

N/A.

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.22.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.22.1.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.22.2 Downlink

6.11.5.4.1.22.2.1 Transport channel parameters

6.11.5.4.1.22.2.1.1 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS

RAB

See clause 6.10.3.4.1.22.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.22.2.1.3 TFCS

See clause 6.10.3.4.1.22.2.1.3.

6.11.5.4.1.22.2.2 Physical channel parameters

| DPCH | Modulation | QPSK | 8PSK |
|----------|--|-----------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame | SF 1 x 1code x 6 time slots | SF1 x 1 code x 4 time slots |
| | Max. Number of data bits / radio frame | 8424 bits | 8212 bits |
| | TFCI code word / radio frame | 16 bits | 16 bits |
| | TPC / radio frame | 2x 2 bits | 2x 3 bits |
| | SS/ radio frame | 2x 2 bits | 2x 3 bits |
| | Puncturing Limit | 0.68 | 0.68 |

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 |

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 | 0.84 |

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6.11.5.4.1.24 Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

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6.11.5.4.1.24.1 Uplink

6.11.5.4.1.24.1.1 Transport channel parameters

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

See clause 6.10.3.4.1.24.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.24.1.1.3 TFCS

See clause 6.10.3.4.1.24.1.1.3.

6.11.5.4.1.24.1.2 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 | 2 * 2 bits |
| | SS / radio frame | 2 * 2 bits |
| | Puncturing Limit | 0.6 |

6.11.5.4.1.24.2 Downlink

See clause 6.11.5.4.1.23.2

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 | 0.6 |

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

See clause 6.11.5.4.1.24.1.

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

6.11.5.4.1.27.1 Uplink

See clause 6.11.5.4.1.24.1.

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 | 0.72 |

6.11.5.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.28.1 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 | 0.64 |

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 6.11.5.4.1.24.1.

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 | 0.64 |

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 | 0.88 | 0.84 |

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 6.11.5.4.1.24.1.

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 | 0.64 |

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 6.11.5.4.1.24.1.

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

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 | 3 * 3 bits |
| | SS / radio frame | 2 * 2 bits | 3 * 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 6.11.5.4.1.24.1.

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 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 Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.36.1 Uplink

See clause 6.11.5.4.1.28.1.

6.11.5.4.1.36.2 Downlink

See clause 6.11.5.4.1.35.2.

6.11.5.4.1.37 Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.37.1 Uplink

See clause 6.11.5.4.1.34.1.

6.11.5.4.1.37.2 Downlink

See clause 6.11.5.4.1.35.2.

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

6.11.5.4.1.38.1 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 | 0.84 |

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.

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 | 0.64 |

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 | 0.64 |

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

6.11.5.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.24.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.40.1.1.4 TFCS

See clause 6.10.3.4.1.40.1.1.4.

6.11.5.4.1.40.1.2 Physical channel parameters

| 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 | 2784 bits |
| | TFCI code word/ radio frame | 16 bits |
| | TPC/ radio frame | 2*2 bits |
| | SS/ radio frame | 2*2 bits |
| | Puncturing Limit | 1 |

6.11.5.4.1.40.2 Downlink

See clause 6.11.5.4.1.39.2.

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

6.11.5.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.41.2.1.4 TFCS

See clause 6.10.3.4.1.41.2.1.4.

6.11.5.4.1.41.2.2 Physical channel parameters

| 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 | 3 x 3 bits |
| | SS / radio frame | 2 * 2 bits | 3 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

See clause 6.11.5.4.1.40.1.

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 | 8400 bits | 8376 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 | 0.88 | 0.88 |

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

 $6.11.5.4.1.43.2.1.1 \qquad \text{Transport channel parameters for Conversational / speech / DL:} 12.2 \ kbps / CS \ RAB$

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.43.2.1.4 TFCS

See clause 6.10.3.4.1.43.2.1.4.

6.11.5.4.1.43.2.2 Physical channel parameters

| 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 | 3 x 3 bits |
| | SS / radio frame | 2 * 2 bits | 3 x 3 bits |
| | Puncturing Limit | 0.60 | 0.60 |

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 | 0.88 |

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 | 33 (alt. 51) |
|-----------|--|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 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, 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), |
| | (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, 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), |
| | (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF1, TF1, TF1, TF1, 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, TF2, TF1), (TF2, 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, TF1, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF4, 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)) |
| | 1 (5, 5, 5, 7) |

For better understanding of the TFCS please note that the following combinations are not included in the table above:(TF2, TF1, TF1, TF5, TF0), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF2, TF1, TF1, TF8, TF0), (TF1, TF0, TF0, TF0, TF1, TF1, TF1, 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 | 3 * 3 bits |
| | SS / radio frame | 3 * 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 | 0.64 |

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 UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.11.

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 | 0.64 |

6.11.5.4.1.46 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.46.1 Uplink

See clause 6.11.5.4.1.4.1.

6.11.5.4.1.46.2 Downlink

6.11.5.4.1.46.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.46.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

See clause 6.10.3.4.1.18.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.46.2.1.4 TFCS

See clause 6.10.3.4.1.46.2.1.4.

6.11.5.4.1.46.2.2 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 | 0.64 |

6.11.5.4.1.47 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.47.1 Uplink

See clause 6.11.5.4.1.4.1.

6.11.5.4.1.47.2 Downlink

6.11.5.4.1.47.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.47.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS

See clause 6.10.3.4.1.20.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.47.2.1.4 TFCS

See clause 6.10.3.4.1.47.2.1.4.

6.11.5.4.1.47.2.2 Physical channel parameters

| 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 | 3128 bits | 3108 bits |
| | TFCI code word / radio frame | 32 bits | 48 bits |
| | TPC / radio frame | 2 * 2 bits | 3 x 3 bits |
| | SS / radio frame | 2 * 2 bits | 3 x 3 bits |
| | Puncturing Limit | 0.68 | 0.68 |

6.11.5.4.1.48 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:384 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.48.1 Uplink

See clause 6.11.5.4.1.4.1.

6.11.5.4.1.48.2 Downlink

6.11.5.4.1.48.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.48.2.1.2 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS RAB

See clause 6.10.3.4.1.22.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.48.2.1.4 TFCS

See clause 6.10.3.4.1.48.2.1.4.

6.11.5.4.1.48.2.2 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 | 0.64 | 0.64 |

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 | 1 |

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 6.10.3.4.1.2.2.11.

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 | 0.64 |

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 6.10.3.5.4.1.13.1.1.1.

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 | 0.68 |

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 | 0.64 |

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 6.10.3.4.1.24.1.1.1.

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 | 0.64 |

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 | 0.64 |

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 | 0.64 |

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 | 0.88 | 0.68 |

6.11.5.4.1.53.2 Downlink

See clause 6.11.5.4.1.52.2.

6.11.5.4.1.54 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.54.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.54.2 Downlink

6.11.5.4.1.54.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.54.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

See clause 6.10.3.4.1.18.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.54.2.1.4 TFCS

See clause 6.10.3.4.1.54.2.1.4.

6.11.5.4.1.54.2.2 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 | 4184 bits |
| | TFCI code word / radio frame | 32 bits |
| | TPC / radio frame | 2 * 2 bits |
| | SS / radio frame | 2 * 2 bits |
| | Puncturing Limit | 0.64 |

6.11.5.4.1.55 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.55.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.55.2 Downlink

6.11.5.4.1.55.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.55.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

See clause 6.10.3.4.1.20.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.55.2.1.4 TFCS

See clause 6.10.3.4.1.55.2.1.4.

6.11.5.4.1.55.2.2 Physical channel parameters

| DPCH | Modulation | QPSK |
|----------|--------------------------------------|-----------------------------|
| Downlink | Codes and time slots/ radio frame | SF1 x 1 code x 4 time slots |
| | Max. Number of data bits/radio frame | 5592 bits |
| | TFCI code word/ radio frame | 24 bits |
| | TPC/ radio frame | 2*2 bits |
| | SS/ radio frame | 2*2 bits |
| | Puncturing Limit | 0.64 |

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: 16.8 DL: 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 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.2.

6.11.5.4.2.1.1.1.3 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL

SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.3.

6.11.5.4.2.1.1.2 Physical channel parameters

| 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 | 1 |

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.

6.11.5.4.2.1.2.1.2 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.1.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

| Higher | RAB/sigr | nalling RB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 |
|---------|-------------|-----------------|-----------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| layer | User of F | Radio | RRC | RRC | RRC | NAS_DT | NAS_DT | RRC | RRC |
| | Bearer | | | | | High prio | Low prio | | |
| RLC | Logical o | channel | CCCH | DCCH | DCCH | DCCH | DCCH | SHCCH | вссн |
| | type | | | | | | | | |
| | RLC mod | | UM | UM | AM | AM | AM | UM | TM |
| | Payload | sizes, bit | 160 | 136 or 120* | 128 | 128 | 128 | 160 | 168 |
| | Max data | a rate, bps | 32000 (alt. 48000) | 27200 or 24000 (alt. 40800 or 36000) | 25600 (alt. 38400) | 25600 (alt. 38400) | 25600 (alt. 38400) | 32000 (alt. 48000) | 33600 (alt. 50400) |
| | RLC hea | der, bit | 8 | 8 | 16 | 16 | 16 | 8 | 0 |
| MAC | MAC hea | ader, bit | 3 | 27 or 43 | 27 | 27 | 27 | 3 | 3 |
| | MAC mu | Itiplexing | | | 7 logica | l channel mult | iplexing | | |
| Layer 1 | TrCH typ | е | FACH | | | | | | |
| | TB sizes | , bit | 171 | 171 | 171 | 171 | 171 | 171 | 171 |
| | TFS | TF0, bits | | | | 0x171 | | | |
| | | TF1, bits | 1x171 | | | | | | |
| | | TF2, bits 2x171 | | | | | | | |
| | | TF3, bits | | 3x171 | | | | | |
| | | TF4, bits | | | | 4x171 | | | |
| | | TF5, bits | N/A (alt. 5x171) | | | | | | |
| | | TF6, bits | N/A (alt. 6x171) | | | | | | |
| | TTI, ms | | | | | 20 | | | |
| | Coding type | | | | | CC ½ | | | |
| | CRC, bit | | | | | 16 | | | |
| | | | 1528 (alt. 2292) | | | | | | |

^{*} 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 TFCS for FACH

| TFCS size | 5 (alt. 7) |
|-----------|--|
| TFCS | FACH = TF0, TF1, TF2, TF3, TF4 (alt. FACH = TF0, TF1, TF2, TF3, TF4, TF5, TF6) |

6.11.5.4.2.1.2.2 Physical channel parameters

| 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 | 0.64 | 0.72 |

| S-CCPCH | Modulation | QPSK |
|---------|--------------------------------------|-------------------------------|
| | Codes and time slots/ radio frame | SF16 x 5 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 856 bits |
| | TFCI code word/ radio frame | 16 bits |
| | TPC/ radio frame | 2*2 bits |
| | SS/ radio frame | 2*2 bits |
| | Puncturing Limit | 0.72 |

Interactive or background / UL: 64 DL: 384 kbps / PS RAB 6.11.5.4.2.2

+ UL: 16.8 DL: 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.

6.11.5.4.2.2.2 Downlink

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 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.2.

6.11.5.4.2.2.2.1.3 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 6.11.5.4.2.1.2.1.3.

6.11.5.4.2.2.2.1.4 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.2.2.2 Physical channel parameters

| 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 | 0.64 |

| SCCPCH | Modulation | QPSK |
|--------|--------------------------------------|--------------------------------|
| | Codes and time slots/ radio frame | SF 16 x 5 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 856 bits |
| | TFCI code word / radio frame | 16 bits |
| | TPC / radio frame | 2 * 2 bits |
| | SS / radio frame | 2 * 2 bits |
| | Puncturing Limit | 0.72 |

6.11.5.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 DL: 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 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 ½ |
| | 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 TFCS for DSCH

| TFCS size | 11 (alt.17) |
|-----------|---|
| TFCS | (2048 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), |
| | (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)) |

For better understanding of the TFCS please note that the following combinations are not included in the table above: (TF5, TF1), (TF8, TF1)

6.11.5.4.2.3.2.1.3 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 6.11.5.4.2.1.2.1.3.

6.11.5.4.2.3.2.1.4 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.3.2.2 Physical channel parameters

| 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 |

| S-CCPCH | Modulation | QPSK |
|---------|--------------------------------------|-------------------------------|
| | Codes and time slots/ radio frame | SF16 x 5 codes x 2 time slots |
| | Max. Number of data bits/radio frame | 856 bits |
| | TFCI code word/ radio frame | 16 bits |
| | TPC/ radio frame | 2*2 bits |
| | SS/ radio frame | 2*2 bits |
| | Puncturing Limit | 0.72 |

6.11.5.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

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 6.10.3.4.2.1.1.1.2.

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.

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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 6.10.3.4.2.1.2.1.2.

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/Sig | nalling RB | SRB#0 SRB#5 SRB#6 | | SRB#6 | |
|---------|---|-------------|-------------------|--------------------------|-------|--|
| layer | User of Radio Bearer | | RRC | RRC | RRC | |
| | Logical channel type | | CCCH | SHCCH | BCCH | |
| | RLC mo | de | UM UM | | TM | |
| RLC | Payload | sizes, bit | 160 | 160 | 168 | |
| | Max data | a rate, bps | 32000 | 32000 | 33600 | |
| | RLC hea | ader, bit | 8 | 8 | 0 | |
| MAC | MAC hea | ader, bit | | 3 | | |
| IVIAC | MAC mu | Iltiplexing | 3 lc | ogical 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 t | | CC ½ | | | |
| | CRC, bit | | | 16 | | |
| | Max number of bits/TTI after channel coding | | 1528 | | | |
| | | | | | | |
| | Max number 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 6.10.3.4.2.2.2.1.2.

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

| 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) |
| | RLC 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 | , bits | 0x240 (alt. 0x80) |
| | TF1 | , bits | 1x240 (alt. 1x80) |
| | TF2 | , bits | 2x240 (alt. 2x80) |
| | TTI, ms | | 20 |
| | Coding type | | CC 1/2 |
| | CRC, bit | | 16 |
| | Max number of bits/TTI I matching | before rate | 1056 (alt. 400) |
| | RM attribute | | 210-250 |

6.11.5.4.4.1.1.2 TFCS

| TFCS size | 3 |
|-----------|------------------------------|
| TFCS | SRBs for PCCH = TF0, TF1,TF2 |

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 |
| | Max. Number of data bits/radio frame | 344 bits |
| | TFCI code word/ radio frame | 8 bits |
| | TPC/ radio frame | 0 bits |
| | SS/ radio frame | 0 bits |
| | Puncturing Limit | 0.64 |

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

| Higher | RAB/signalling RB | | RAB |
|---------|---|-----------|-----------------------------|
| layer | User of Radio Bearer | | Interactive/ Background RAB |
| RLC | Logical channel t | ype | DTCH |
| | RLC mode | | AM |
| | Payload sizes, bi | t | 320 |
| | Max data rate, bp | os | 32000 |
| | RLC header, bit | | 16 |
| MAC | MAC header, bit | | 27 |
| IVIAC | MAC multiplexing | | N/A |
| Layer 1 | TrCH type | | FACH |
| | TB sizes, bit | | 363 |
| | | TF0, bits | 0 x363 |
| | TFS | TF1, bits | 1x363 |
| | | TF2, bits | 2x363 |
| | TTI, ms | | 20 |
| | Coding type | | TC |
| | CRC, bit | | 16 |
| | Max number of bits/TTI before rate matching | | 2286 |
| | RM attribute | | 110-150 |

6.11.5.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| Higher | RAB/signalli | ng RB | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 | SRB#6 |
|---------|-----------------------------|-----------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| layer | User of Rad | io Bearer | RRC | RRC | RRC | NAS_DT High prio | NAS_DT Low prio | RRC |
| RLC | Logical char | nel type | CCCH | DCCH | DCCH | DCCH | DCCH | BCCH |
| | RLC mode | | UM | UM | AM | AM | AM | TM |
| | Payload size | es, bit | <u>160</u> | 13 <u>6</u> or 1 <u>20</u> | 12 <u>8</u> | <u>128</u> | <u>128</u> | <u>168</u> |
| | Max data rat | te, bps | 32000 (alt. 48000) | 27200 or 2400 (alt. 40800 or 36000) | 25600 (alt. 38400) | 25600 (alt. 38400) | 25600 (alt. 38400) | 33600 (alt. 50400) |
| | RLC header | , bit | 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 | | | 0x′ | | | |
| | | TF1, bits | 1x171 | | | | | |
| | | TF2, bits | 2x171 | | | | | |
| | TFS | TF3, bits | 3x171 | | | | | |
| | | TF4, bits | 4x171 | | | | | |
| | | TF5, bits | N/A (alt. 5x171) | | | | | |
| | | TF6, bits | | | | . 6x171) | | |
| | TTI, ms | | 20 | | | | | |
| | Coding type | | CC ½ | | | | | |
| | CRC, bit | | 16 | | | | | |
| | Max number before rate r | | | | 1528 (a | lt. 2292) | | |
| | RM attribute | | | | 200 | -240 | - | |

^{*} 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

| TFCS size | 15 (alt. 21) |
|-----------|---|
| TFCS | (32kbps RAB, 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), (TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4), |
| | (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF0, TF5), (TF0, TF6), |
| | (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4), (TF1, TF5), (TF1, TF6), |
| | (TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4), (TF2, TF5), (TF2, TF6)) |

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 |
| | 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 | 0.68 |

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 6.11.5.4.4.2.1.

6.11.5.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.11.5.4.4.1.1.

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

| - | |
|-----------|--|
| TFCS size | 45 (alt. 63) |
| 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, |
| | TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4),(TF0, TF2, |
| | TF0), (TF0, TF2, TF1), (TF0, TF2, TF2), (TF0, TF2, TF3), (TF0, TF2, 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),(TF1, TF2, TF0), (TF1, TF2, |
| | TF1), (TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF2, 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),(TF2, TF2, TF0), (TF2, TF2, TF1), (TF2, TF2, |
| | TF2), (TF2, TF2, TF3), (TF2, TF4) |
| | (alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), |
| | (TF0, TF0, TF5), (TF0, TF6), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, |
| | TF1, TF3), (TF0, TF1, TF4), (TF0, TF1, TF5), (TF0, TF1, TF6),(TF0, TF2, TF0), (TF0, TF2, |
| | TF1), (TF0, TF2, TF2), (TF0, TF2, TF3), (TF0, TF2, TF4), (TF0, TF2, TF5), (TF0, TF2, TF6), |
| | (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, |
| | TF0, TF5), (TF1, TF0, TF6),(TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, |
| | TF3), (TF1, TF1, TF4), (TF1, TF1, TF5), (TF1, TF1, TF6),(TF1, TF2, TF0), (TF1, TF2, TF1), |
| | (TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF2, TF4), (TF1, TF2, TF5), (TF1, TF2, TF6),(TF2, |
| | TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0, |
| | TF5), (TF2, TF0, TF6),(TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3), |
| | (TF2, TF1, TF4), (TF2, TF1, TF5), (TF2, TF1, TF6),(TF2, TF2, TF0), (TF2, TF2, TF1), (TF2, |
| | TF2, TF2), (TF2, TF2, TF3), (TF2, TF4), (TF2, TF2, TF5) (TF2, TF2, TF6)) |

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 | | |
| | Max. Number of data bits/radio frame | 1728 bits | | |
| | TFCI code word/ radio frame | 32 bits | | |
| | TPC/ radio frame | 0 bits | | |
| | SS/ radio frame | 0 bits | | |
| | Puncturing Limit | 0.64 | | |

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

| Higher | RAB/signalling RB | | SRB#1 | SRB#2 | SRB#3 | SRB#4 | SRB#5 |
|---------|--------------------|-------|--------------------------------|-------|-------|-----------|----------|
| layer | User of R | Radio | RRC | RRC | RRC | NAS_DT | NAS_DT |
| | Bearer | | | | | High prio | Low prio |
| RLC | Logical channel | | CCCH | DCCH | DCCH | DCCH | DCCH |
| | type | | | | | | |
| | RLC mode | | TM | UM | AM | AM | AM |
| | Payload sizes, bit | | 168 | 136 | 128 | 128 | 128 |
| | Max data rate, bps | | 16800 | 13600 | 12800 | 12800 | 12800 |
| | RLC header, bit | | 0 | 8 | 16 | 16 | 16 |
| MAC | MAC header, bit | | 2 | 26 | 26 | 26 | 26 |
| | MAC multiplexing | | 5 logical channel multiplexing | | | | |
| Layer 1 | TrCH type | | RACH | | | | |
| | TB sizes, bit | | 170 | 170 | 170 | 170 | 170 |
| | TFS TF0, bits | | 1x170 | | | | |

| TTI, ms | 10 | | | | |
|---|------|-----|-----|-----|-----|
| Coding type | CC ½ | | | | |
| CRC, bit | 16 | | | | |
| Max number of bits/TTI after channel coding | 388 | 388 | 388 | 388 | 388 |
| Max number of bits/Radio frame before rate matching | 388 | 388 | 388 | 388 | 388 |

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 32 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 / UL:32 kbps / PS RAB

| Higher | RAB/signalling RB | RAB |
|---------|--|-------------------------|
| layer | User of Radio | Interactive/ |
| | Bearer | Background RAB |
| RLC | Logical channel | DTCH |
| | type | |
| | RLC mode | AM |
| | Payload sizes, bit | 320 |
| | Max data rate, bps | 32000 |
| | AMD/UMD/TrD | 16 |
| | PDU header, bit | |
| MAC | MAC header, bit | 24 |
| | MAC multiplexing | |
| Layer 1 | TrCH type | RACH |
| | TB sizes, bit | 360 |
| | , | |
| | TFS TF0, bits | 1x360 |
| | | 1x360 10 |
| | TFS TF0, bits TTI, ms Coding type | |
| | TFS TF0, bits TTI, ms | 10 |
| | TFS TF0, bits TTI, ms Coding type CRC, bit Max number of | 10 CC ½ |
| | TFS TF0, bits TTI, ms Coding type CRC, bit Max number of bits/TTI after | 10 CC ½ 16 |
| | TFS TF0, bits TTI, ms Coding type CRC, bit Max number of | 10 CC ½ 16 |
| | TFS TF0, bits TTI, ms Coding type CRC, bit Max number of bits/TTI after channel coding Max number of bits/ | 10 CC ½ 16 |
| | TFS TF0, bits TTI, ms Coding type CRC, bit Max number of bits/TTI after channel coding | 10 CC ½ 16 768 |

6.11.5.4.5.2.1.2 Transport channel parameters for SRB for CCCH + SRBs for DCCH See the Chapter 6.11.5.4.5.1.1.1.

6.11.5.4.5.2.1.3 TFCS

| TFCS size | 2 |
|-----------|--|
| TFCS | 32 kbps + SRBs for CCCH/ DCCH = TF0, TF1 |

6.11.5.4.5.2.2 Physical channel parameters

| PRACH | Modulation | QPSK | |
|-------|--------------------------------------|------------------------------|--|
| | Codes and time slots/ radio frame | SF 4 x 1 code x 2 time slots | |
| | Max. Number of data bits/radio frame | 704 bits | |
| | TPC / radio frame | 0 bits | |
| | SS / radio frame | 0 bits | |
| | Puncturing Limit | 0.88 | |

For physical channel parameters for SRB for CCCH + SRBs for DCCH 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.

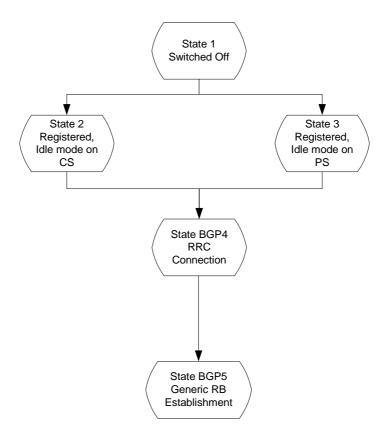


Figure 7.1.1: UE Test States for Basic Generic Procedures

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 | ← | SYSTEM INFORMATION (BCCH) | Default SI messages |
| 2 | ← | PAGING TYPE 1 (PCCH) | Sent on appropriate cycle |
| 3 | \rightarrow | RRC CONNECTION REQUEST (CCCH) | RRC |
| 4 | ← | 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:

| | Value/Remark | | | |
|----------------------------|---------------|---------------|--------------------|---|
| Message Type | | | | PAGING TYPE 1 |
| UE Information elem | nents | | | |
| Paging record list | Paging record | CN originator | Paging cause | Terminating Speech Call (note) |
| | | | CN domain identity | CS domain (note) |
| | | | TMSI (GSM-MAP) | As specified during Registration procedure |
| Other information el | ements | | | |
| BCCH modification in | fo | | | omit |
| | | | | erwise, the Paging cause and 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 | |
| | | | REQUEST |
| UE information elemen | ts | | |
| Initial UE identity | TMSI and LAI | TMSI (GSM-MAP) | As specified during |
| - | | | Registration procedure |
| | | LAI (GSM-MAP) | As specified by default 1 cell |
| | | | environment |
| Initial UE capability | Maximum numbe | er of AM entities | As declared in UE ICS |
| Establishment cause | | | As appropriate |
| Protocol error indicator | | | FALSE |
| | | | |
| Measurement informati | ion elements | | |
| Measured results on RA | CH | | Not checked |

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 |
| UE Information Elements | | | |
| 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 | | | |
| Use default | | | |
| TrCH Information Elements | | | |
| Frequency info | | | As specified by default 1 cell environment |
| | · | <u> </u> | · |
| Use default | | | |
| Downlink radio resources | | | |
| Use default | | | |

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 | To | | Not checked |
| UE radio access capability | Conformance test | | R99 |
| | PDCP capability | Support for lossless SRNS relocation | Not checked |
| | | Supported algorithm types | Not checked |
| | RLC capability | Total RLC AM buffer size | Not checked |
| | i teo capaciity | Maximum number of AM | Not checked |
| | | entities | |
| | 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 | T |
| | | 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 |
| | DE LUC | Support for turbo encoding | Not checked |
| | RF capability | UE power class | As declared for UE |
| | Physical channel capability | Tx/Rx frequency separation Downlink | Not checked |
| | | 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 |
| | | Toubbout of LOLOLI | I vot dilediced |

| Information Element | | | Value/Remark |
|-------------------------------|---|---|----------------|
| | UE multi- mode/multi-RAT 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 capability | | | 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 | ← | 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 | Default parameters for 12.2 kbps speed bearer according to TS 34.108 clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.10.4.4 Mcps TDD and 6.10.4 Mcps TDD and 6.1 | 6.10.2.4.1.4 for FDD, clause | | | | |

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 COMPLETE |
| Use default | |

7.2 Generic setup procedures

7.2.1 UE Test States for Generic setup procedures

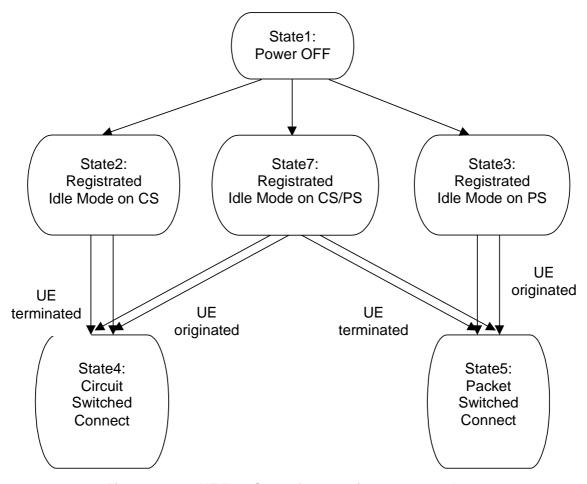


Figure 7.2.1.1: UE Test States for Generic setup procedures

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

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, 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

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 |

7.2.2.3.4 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 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 be operated under RF test conditions.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS)

The UE has a valid P-TMSI (PS)

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 | < | ACTIVATE RB TEST MODE | TC |
| 8 | > | ACTIVATE RB TEST MODE COMPLETE | TC |
| 9 | < | RADIO BEARER SETUP | RRC (RAB SETUP) |
| 10 | > | RADIO BEARER SETUP COMPLETE | RRC |
| 11 | < | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 12 | > | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 13 | < | OPEN UE TEST LOOP | TC |
| 14 | > | OPEN UE TEST LOOP COMPLETE | TC |
| 15 | < | RRC CONNECTION RELEASE | RRC |
| 16 | > | 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 | < | < | SECURITY MODE COMMAND | RRC (note) |
| 8 | - | -> | SECURITY MODE COMPLETE | RRC (note) |
| 9 | < | < | ACTIVATE RB TEST MODE | TC |
| 10 | - | -> | ACTIVATE RB TEST MODE COMPLETE | TC |
| 11 | < | < | RADIO BEARER SETUP | RRC (RAB SETUP) |
| 12 | - | -> | RADIO BEARER SETUP COMPLETE | RRC |
| 13 | < | < | CLOSE UE TEST LOOP (DCCH) | TC (UE test loop mode set up) |
| 14 | - | -> | CLOSE UE TEST LOOP COMPLETE | TC (confirms that loopback |
| | | | | entities for the radio bearer(s) |
| | | | | have been created and loop |
| | | | | back is activated) |
| 15 | < | < | OPEN UE TEST LOOP | TC |
| 16 | - | -> | OPEN UE TEST LOOP COMPLETE | TC |
| 17 | < | < | RRC CONNECTION RELEASE | RRC |
| 18 | 1 | -> | RRC CONNECTION RELEASE COMPLETE | RRC |
| NOTE: | | | | |
| | SE | RVICE | REQUEST message. | |

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 ATTCH 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

| 7.0.2. 1.2 | Note of the desired of the first of the firs |
|--|--|
| The messages in this measurement channel | s sub-clause are sent from the SS to the UE, determining the configurations of reference el for the RF tests. |
| UL reference mea | surement channel (12.2kbps) |
| [T.B.D.] | |
| | |
| UL reference mea | surement channel (786kbps) |
| [T.B.D.] | |
| | |
| DL reference mea | surement channel (12.2kbps) |
| [T.B.D.] | |
| | |
| DL reference mea | surement channel (64kbps) |
| [T.B.D.] | |
| | |
| DI reference mea | surement channel (144kbps) |
| [T.B.D.] | |
| [.ע.ע.ן | |
| DI notoni i i | average and also are all (20 Alpha a) |
| | surement channel (384kbps) |
| [T.B.D.] | |
| | |

Reference measurement channel for BTFD

[T.B.D.]

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)

The UE has a valid P-TMSI (PS)

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 |

7.3.3.2 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 | < | | ACTIVATE RB TEST MODE | TC |
| 8 | > | | ACTIVATE RB TEST MODE COMPLETE | TC |
| 9 | < | | RADIO BEARER SETUP | RRC |
| | | | | - RAB SETUP using Reference |
| | | | | Radio Bearer Configuration |
| | | | | - RRC state indicator is set to |
| | | | | "CELL_FACH" |
| 10 | > | | RADIO BEARER SETUP COMPLETE | RRC |
| 11 | < | | RRC CONNECTION RELEASE | RRC |
| 12 | > | | 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 | < | | SECURITY MODE COMMAND | RRC (note) |
| 8 | | ·> | SECURITY MODE COMPLETE | RRC (note) |
| 9 | < | | ACTIVATE RB TEST MODE | TC |
| 10 | | ·> | ACTIVATE RB TEST MODE COMPLETE | TC |
| 11 | < | | RADIO BEARER SETUP | RRC |
| | | | | - RAB SETUP using Reference |
| | | | | Radio Bearer Configuration |
| | | | | - RRC state indicator is set to |
| | | | | "CELL_FACH" |
| 12 | | ·> | RADIO BEARER SETUP COMPLETE | RRC |
| 13 | < | | RRC CONNECTION RELEASE | RRC |
| 14 | | ·> | RRC CONNECTION RELEASE COMPLETE | RRC |
| NOTE: | Ste | o7 and | Step8 are inserted in order to stop T3317 timer in the UE, which | starts after transmitting |
| | SEF | RVICE | REQUEST message. | - |

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

FFS

7.3.5 Test procedure for Measurement Performance Requirement

FFS

7.4 Common generic procedures for AS testing

7.4.1 UE RRC Test States for common procedures

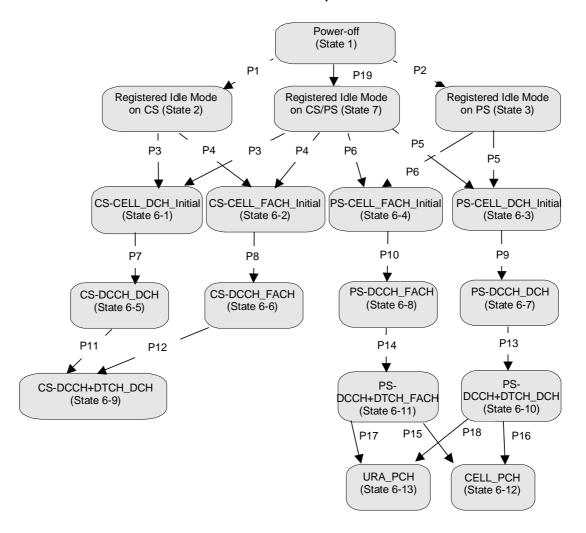


Figure 7.4.1.1: UE RRC test initial states and common procedures

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 | Idle | 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 (CELL_DCH) | Null | As previous | Active pending | As previous |
| State BGP6-8 | PS-DCCH_FACH | Connected (CELL_FACH) | Null | As previous | Active pending | As previous |
| State BGP6-9 | CS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Connected | As previous | Inactive | As previous |
| State BGP6-10 | PS-DCCH+DTCH_DCH | Connected (CELL_DCH) | Null | As previous | Active | As previous |
| State BGP6-11 | PS-DCCH+DTCH_FACH | Connected (CELL_FACH) | Null | As previous | Active | 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 1, state 2, state 3, P1, P2 and P19 are described in TS34.108 clause 7.2. States 6-X (for X=1 to 16) 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 of TS 34.108. Reference Test Conditions.

| Step | Dire | ction | 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 34.123-1 Annex A 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 of TS 34.108. Reference Test Conditions.

| Step | Dire | ction | Message | Comments |
|------|------|-------|--------------------------------------|----------|
| | UE | SS | | |
| 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 34.123-1 Annex A 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 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 34.123-1 Annex A 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 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 34.123-1 annex. A 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 of TS 34.108. Reference Test Conditions.

| Step | Directi | ion | Message | Comments |
|------|---------|-----|-------------------------|----------|
| | UE S | 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 of TS 34.108. Reference Test Conditions.

| Step | Dire | ction | 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 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 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 | SM |

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 of TS 34.108. Reference Test Conditions.

| Step | Direc | ction | 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 of TS 34.108. Reference Test Conditions.

| Step | Directio | n Message | Comments |
|------|----------|-----------------------------|-------------------------------|
| | UE S | 3 | |
| 1 | < | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | > | RADIO BEARER SETUP COMPLETE | RRC |
| 3 | > | ALERTING | CC (This message is optional) |
| 4 | > | CONNECT | CC |
| 5 | < | 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 annex A of TS 34.123-1) 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 of TS 34.108. Reference Test Conditions.

| Step | Dire | ction | Message | Comments |
|------|------|-------|-----------------------------|---------------|
| | UE | SS | | |
| 1 | < | | RADIO BEARER SETUP | RRC RAB SETUP |
| 2 | | ·> | RADIO BEARER SETUP COMPLETE | RRC |
| 3 | < | | ALERTING | 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 Annex A of TS 34.123-1) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in annex A of TS 34.123-1) for the message in step 1.

7.4.2.6 Radio access bearer establishment procedure for packet switched sessions (procedure P13 and P14)

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 of TS 34.108. Reference Test Conditions.

| Step | Dire | ction | 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 annex A of TS 34.123-1 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure 14, use the message titled "Packet to CELL_FACH from CELL_FACH 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 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 Annex A of TS 34.123-1 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure 14, 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 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 | | |
| 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 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 |

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 TS31.120 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*.

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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 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]

AK[bits 0,1,...46,47] = f4(XDOUT) = XDOUT[bits 24,25,...70,71]

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 $0,1, \dots 62, 63$] = $\mathbf{f1}(\mathbf{XDOUT}, \mathbf{CDOUT})$ = \mathbf{XDOUT} [bits $0,1, \dots 62, 63$] XOR \mathbf{CDOUT} [bits $0,1, \dots 62, 63$]

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] \parallel **AMF**[bits 0,1,...14,15] \parallel **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_{RESYNCH} 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_{MS}**[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 $\mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots.46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots.46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots.46,47] \text{ where AUTN is the received authentication token.}$

For SS and AUC the $\mathbf{SQN_{MS}} = \mathbf{AUTS}[\text{bits } 0,1,\dots.46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots.46,47] \text{ where AUTS is the received re-synchronisation parameter.}$

Step 4:

MAC-S is calculated from XDOUT and CDOUT this way:

```
MAC-S[bits 0,1, . . .62, 63] = \mathbf{f1*(XDOUT, CDOUT)} = \mathbf{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] = SQN<sub>MS</sub> \oplus AK[bits 0,1,...46,47] || MAC-S[bits 0,1,...62, 63]
```

Where $\mathbf{SQN_{MS}} \oplus \mathbf{AK}$ [bits 0,1,...46,47] = $\mathbf{SQN_{MS}}$ [bits 0,1,...46,47] XOR \mathbf{AK} [bits 0,1,...46,47]

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.

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_{RESYNCH} 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 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.

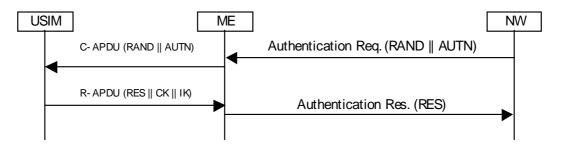


Figure 8.1.2.3.1: Network accepted by UE

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_{RESYNCH} 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 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").

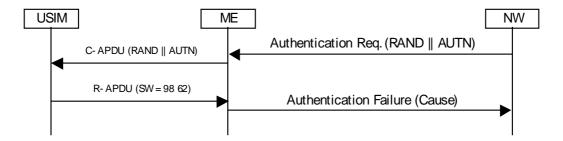


Figure 8.1.2.3.2: MAC failure cases

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_{RESYNCH}.

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 $_{RESYNCH}$ 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.

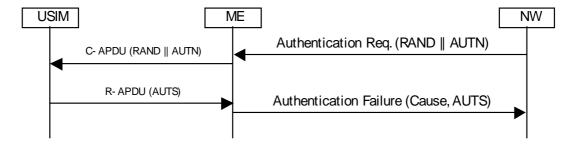


Figure 8.1.2.3.3: SQN failure case

8.2 Default Parameters for the test USIM

K:

The authentication key "K" will be chosen by the test house and will be non zero. The "K" value used by the SS will align with this value.

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_{DIR}

8.3.1.2 EF_{ICCID} (ICC Identity)

The programming of this EF is a test house option.

8.3.1.3 EF_{PL} (Preferred Languages)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.1.4 EF_{ARR} (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_{LI} (Language Indication)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.2 EF_{IMSI} (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_{Kevs} (Ciphering and Integrity Keys)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.4 EF_{KevsPS} (Ciphering and Integrity Keys for Packet Switched domain)

8.3.2.5 EF_{PLMNwAcT} (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_{HPLMN} (HPLMN search period)

File size: 1 byte

Default value (HEX): 00 (no HPLMN search attempts)

8.3.2.7 EF_{ACMmax} (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_{UST} (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 |
| Service n°20: | User controlled PLMN selector with Access Technology | Yes |
| Service n°21: | MSISDN | Option |
| Service n°22: | Image (IMG) | Option |
| Service n°23: | Not used (reserved for SoLSA) | No |
| Service n°24: | Enhanced Multi-Level Precedence and Pre-emption Service | Option |
| Service n°25: | Automatic Answer for Emlpp | Option |
| Service n°26: | RFU | No |
| Service n°27: | GSM Access | Yes |
| Service n°28: | Data download via SMS-PP | 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: | Co-operative Network List | Option |
| 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_{ACM} (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_{GID1} (Group Identifier Level 1)

The programming of this EF is a test house option.

8.3.2.11 EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

8.3.2.12 EF_{SPN} (Service Provider Name)

The programming of this EF is a test house option.

8.3.2.13 EF_{PUCT} (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_{CBMI} (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_{ACC} (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_{FPI MN} (Forbidden PLMNs)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.17 EF_{LOCI} (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_{AD} (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_{CBMID} (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_{FCC} (Emergency Call Codes)

The programming of this EF is a test house option.

8.3.2.22 EF_{CBMIR} (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_{PSLOCI} (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 (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_{FDN} (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.25 EF_{SMS} (Short messages)

8.3.2.26 EF_{MSISDN} (MSISDN)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.27 EF_{SMSP} (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_{SDN} (Service Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.30 $\mathsf{EF}_{\mathsf{FXT2}}$ (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_{SMSR} (Short message status reports)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.33 EF_{ICI} (Incoming Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.34 EF_{OCI} (Outgoing Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.35 EF_{ICT} (Incoming Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.36 EF_{OCT} (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_{CCP2} (Capability Configuration Parameters 2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.39 EF_{eMLPP} (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

8.3.2.40 EF_{AAeM} (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_{GMSI} (Group Identity)

This clause is expected to be defined in the release 2000 version of the present document.

8.3.2.42 EF_{Hiddenkev} (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_{BDN} (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_{CMI} (Comparison method information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.47 EF_{EST} (Enabled service table)

The programming of this EF is a test house option.

8.3.2.48 EF_{ACI} (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_{DCK} (Depersonalisation control keys)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.50 EF_{CNL} (Co-operative network list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.51 EF_{START-HEN} (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_{THRESHOLD} (Maximum value of START)

The programming of this EF is a test house option.

8.3.2.53 EF_{OPLMNsel} (OPLMN selector)

8.3.2.54 EF_{PHPLMNAT} (Preferred HPLMN Access Technology)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.55 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2.56 EF_{RPLMNACT} (RPLMN Last used Access Technology)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.57 EF_{NETPAR} (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_{SAI} (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_{SLL} (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_{MExE-ST} (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_{ORPK} (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_{ARPK} (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_{TPRPK} (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_{TKCDF} (Trusted Key/Certificates Data Files)

8.3.3.2 Contents of files at the DF PHONEBOOK level

8.3.3.2.1 EF_{PBR} (Phone Book Reference file)

The programming of this EF is a test house option.

8.3.3.2.2 EF_{IAP} (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_{ADN} (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_{PBC} (Phone Book Control)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.6 EF_{GRP} (Grouping file)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.7 EF_{AAS} (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_{GAS} (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_{ANR} (Additional Number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.10 EF_{SNE} (Second Name Entry)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.11 EF_{CCP1} (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_{UID} (Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.2 EF_{PSC} (Phone book Synchronisation Counter)

8.3.3.2.12.3 EF_{CC} (Change Counter)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.4 EF_{PUID} (Previous Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.13 EF_{EMAIL} (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_{KcGPRS} (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_{CPBCCH} (CPBCCH Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.5 EF_{InvScan} (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_{ADN} (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_{ECCP} (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF_{SUMF} (SetUpMenu Elements)

The programming of this EF is a test house option.

8.3.4.5 EF_{ARR} (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_{GRAPHICS} level

8.3.5.1.1 EF_{IMG} (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_{PHONEBOOK} under the DF_{TELECOM}

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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. 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. |
| - 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 | now |

| Information Element | Value/remark |
|---------------------------------------|---------------------------------|
| New U-RNTI | Not Present |
| CN information info | Not Present |
| Downlink counter synchronisation info | Not Present |
| Maximum allowed UL TX power | Not Present – use default value |
| Radio link addition information | Not Present |
| Radio link removal information | Not Present |
| TX Diversity Mode | None |
| SSDT information | Not Present |

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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | Not checked |
| Uplink counter synchronisation info | Not checked |

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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 |
|---|---|
| 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE shall be present with the values of the sub |
| | IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| - 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. |
| - 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 |
| - 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 | Selects an arbitrary integer between 0 to 3 |
| Integrity check info | The presence of this IE is dependent on IXIT statements |
| 3 , | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. Else, this IE and the sub-IEs are omitted. |
| - message authentication code | SS calculates the value of MAC-I for this message and |
| C | writes to this IE. |
| - 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 – use default value |
| New U-RNTI | Not Present |
| New C-RNTI | Not Present |
| New DSCH-RNTI | Not Present |
| RRC State indicator | CELL_FACH |
| UTRAN DRX cycle length coefficient | Not Present |
| RLC re-establish indicator (RB2, RB3 and RB4) | FALSE |
| RLC re-establish indicator (RB5 and upwards) | FALSE |
| CN information info | Not Present |
| URA identity | 0000 0000 0001B |
| 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 for all | Not Present |
| 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 for all | Not Present |
| 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 information common for all radio links | Not Present |
| Downlink information per radio link list | Not Present |

Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|---|---|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | The presence of this IE is dependent on IXIT statements in |
| | TS 34.123-2. If integrity protection is indicated to be active, |
| | this IE is present with the values of the sub IEs as stated |
| | below. 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. |
| - 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 |
|--------------------------------|--|
| Message Type | |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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. |
| Intra Domain NAS Node Selector | |
| - CHOICE version | R99 |
| - CHOICE CN type | GSM-MAP |
| - CHOICE Routing basis | Local (P)TMSI |
| - 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 bits are numbered from b0 to b31, with |
| Fatoured managements in | bit b0 being the least significant. |
| - Entered parameter | FALSE |
| NAS message | Set according to that indicated in specific message content |
| OTA DT | for each test case |
| START | Not checked |
| Measured results on RACH | Not 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. 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. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Measurement Identity | 1 |
| Measurement Command | Setup |
| Measurement Reporting Mode - Measurement Report Transfer Mode | Acknowledged mode RLC |
| Measurement Report Hansier Mode Measurement Reporting/Event Trigger Reporting | Periodical |
| Mode | i ellodicai |
| Additional measurement list | Not Present |
| CHOICE Measurement type | Intra-frequency measurement |
| - Intra-frequency measurement | mina moquemoy modeanoment |
| - Intra-frequency cell info | |
| - New intra-frequency cell | |
| Intra-frequency cell-id | 1 |
| - Cell info | |
| - Cell individual offset | 0dB |
| - Reference time difference to cell | Not Present |
| - Read SFN number | FALSE |
| - CHOICE mode | FDD |
| Primary CPICH info Primary scrambling code | Different from the Default patting in TS24 109 clause 6.1 |
| - Filliary Scrambling code | Different from the Default setting in TS34.108 clause 6.1 (FDD) |
| - Primary CPICH Tx power | Not Present |
| - TX Diversity indicator | FALSE |
| - Intra-frequency measurement quantity | Not Present |
| - Intra-frequency reporting quantity | |
| Reporting quantities for active set cells | |
| - SFN-SFN observed time difference reporting | No report |
| indicator | - N 05 |
| - Cell synchronisation information reporting | FALSE |
| indicator - Cell Identity reporting indicator | TRUE |
| - CPICH Ec/N0 reporting indicator | FALSE |
| - CPICH RSCP reporting indicator | TRUE |
| - Pathloss reporting indicator | FALSE |
| - Reporting quantities for monitored cells | |
| - SFN-SFN observed time difference reporting | No report |
| indicator | |
| - Cell synchronisation information reporting | FALSE |
| indicator | TDUE |
| - Cell Identity reporting indicator | TRUE |
| - CPICH Ec/N0 reporting indicator | FALSE TRUE |
| - CPICH RSCP reporting indicator - Pathloss reporting indicator | FALSE |
| - Reporting quantities for detected set cells | Not Present |
| - Reporting cell status | 1 |
| - CHOICE reported cell | Report cell within active set and/or monitored cells on |
| <u>'</u> | used frequency |
| Maximum number of reported cells | 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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

| Information Element | Value/remark |
|---|--|
| Message Type | |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | |
| Intra-frequency measured results Cell measured results | |
| - Cell Identity | Not present |
| - SFN-SFN observed time difference | Checked that this IE is absent |
| - 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 |

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 PAGING TYPE 1 message: TM (SMS in CS)

| 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 | 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. 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. |
| - 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. |

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Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

| Information Element | Condition | Value/remark |
|--|---------------------------|---|
| Message Type | A1, A2, A3, A4, A5, A6 | |
| RRC transaction identifier | A4, A5, A6 | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | | The presence of this IE is dependent on IXIT |
| Integrity oncok mile | | statements in TS 34.123-2. If integrity |
| | | protection is indicated to be active, this IE is |
| | | with the values of the sub IEs as stated |
| | | below. Else, this IE and the sub-IEs are |
| | | omitted. |
| - message authentication code | | SS calculates the value of MAC-I for this |
| DDC | | message and writes to this IE. |
| - 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 |
| | A4 | |
| Activation time | A5, A6 | Not Present |
| New U-RNTI | | Not Present |
| New C-RNTI | A1, A2, A3, | Not Present |
| New C-RNTI | A4 A5, A6 | '1010 1010 1010 1010' |
| New DSCH-RNTI | A1, A2, A3, | Not Present |
| | A4, A5, A6 | |
| RRC State indicator | A1, A2, A3, | CELL_DCH |
| DDC State indicator | A4 | CELL FACH |
| RRC State indicator UTRAN DRX cycle length coefficient | A5, A6 A1, A2, A3, | Not Present |
| OTTAN DIXX cycle length coefficient | A4, A5, A6 | Not i lesent |
| CN information info | | Not Present |
| URA identity | | Not Present |
| Downlink counter synchronisation info | | Not Present |
| Frequency info | | Deference to clause 5.4 Test frequencies |
| - UARFCN uplink (Nu) - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies |
| Maximum allowed UL TX power | | 33dBm |
| 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 | | -6dB |
| - PC Preamble | | 1 frame |
| - SRB delay - Power Control Algorithm | | 7 frames Algorithm1 |
| - TPC step size | | 1dB |
| - 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 |
| - Number of FBI bit | | Parameter Set Reference to TS34.108 clause 6.10 |
| | | Parameter Set |
| - Puncturing Limit | | Reference to TS34.108 clause 6.10 |
| CHOICE Mada | A4 A0 A0 | Parameter Set |
| CHOICE Mode | A1, A2, A3, A4, A5, A6 | FDD |
| - Downlink PDSCH information | | Not Present |
| Downlink information common for all radio links | A1, A2, A3 | |
| - Downlink DPCH info common for all RL | | Maintain |
| - Timing indicator - CFN-targetSFN frame offset | | Maintain Not Present |
| - CFN-targetSFN frame offset - Downlink DPCH power control information | | NOT FIESEIIL |
| - DPC mode | | 0 (single) |
| 2. 0000 | 1 | - \-···a.~/ |

| Information Element | Condition | Value/remark |
|--|-----------|--|
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 0 |
| - DL rate matching restriction information | | Not Present |
| - Spreading factor | | Reference to TS34.108 clause 6.10 |
| Oproduing factor | | Parameter Set |
| - Fixed or Flexible Position | | Reference to TS34.108 clause 6.10 |
| - I IXEG OF FRANCISC FOSITION | | Parameter Set |
| - TFCI existence | | Reference to TS34.108 clause 6.10 |
| - IFCI existence | | |
| CHOICE OF | | Parameter Set |
| - CHOICE SF | | Reference to TS34.108 clause 6.10 |
| DDO!! | | Parameter Set |
| - 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 | A4 | |
| Downlink DPCH info common for all RL | | |
| - Timing indicator | | Initialise |
| - CFN-targetSFN frame offset | | Not Present |
| Downlink DPCH power control information | | |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 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 |
| | | Parameter Set |
| - TFCI existence | | Reference to TS34.108 clause 6.10 |
| TI OI CAISICITIC | | Parameter Set |
| - CHOICE SF | | Reference to TS34.108 clause 6.10 |
| - GHOIGE SI | | Parameter Set |
| - DPCH compressed mode info | | Not Present |
| - TX Diversity mode | | None |
| - SSDT information | | Not Present |
| - OSD Finormation - Default DPCH Offset Value | | |
| - Default DPCH Offset Value | | Arbitrary set to value 0306688 by step of |
| Develor information assessed for all and in links | A.F. A.C. | 512 |
| Downlink information common for all radio links | A5, A6 | Not Present |
| Downlink information for each radio links | A1, | |
| | A2,A3,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 |
| - 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 |
| - Power offset P _{Pilot-DPDCH} | | 0 |
| - Secondary CPICH info | | Not Present |
| - DL channelisation code | | |
| - Secondary scrambling code | | 5 |
| - Spreading factor | | Reference to TS34.108 clause 6.10 |
| oproduing idolor | | Parameter Set |
| - Code number | | 0 |
| - Scrambling code change | | - |
| | | No change |
| - TPC combination index | | 0 Not Dragget |
| - SSDT Cell Identity | | Not Present |
| - Closed loop timing adjustment mode | | Not Present |
| - SCCPCH information for FACH | | Not Present |
| - Downlink information for each radio link | A5 | |
| - Choice mode | | FDD |
| - Primary CPICH info | | |
| - Primary scrambling code | 1 | Ref. to the Default setting in TS34.108 clause |

| Information Element | Condition | Value/remark |
|--|-----------|--------------|
| | | 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - 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 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 FDD |
| COUNT-C activation time | The UE shall include this IE if the following two conditions are fulfilled: (a) The PHYSICAL CHANNEL RECONFIGURATION message did not contain the IE "Ciphering activation time for DPCH" and (b) The PHYSICAL CHANNEL RECONFIGURATION message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for |
| Radio bearer uplink ciphering activation time info Uplink counter synchronisation info | a CN domain. Else, this IE is absent. Not checked 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 | The presence if this IE is dependent on IXIT statements in |
| | TS 34.123-2. if integrity protection is indicated to be |
| | active, this IE shall be present with the values of the sub |
| | IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| 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. |
| - 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 (Speech in CS)

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. 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. |
| 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 |
| RRC State indicator | CELL_DCH |
| UTRAN DRX cycle length coefficient | Not Present |
| CN information info | Not Present |
| URA identity | Not Present |
| Signalling RB information to setup list | Not Present |
| RAB information for setup list | |
| - RAB information for setup | |
| - RAB info | |
| - RAB identity | 0000 0001B |
| - CN domain 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 | 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 | 1 |
| Logical channel identity | Not Present |
| - CHOICE RLC size list | Configured |
| MAC logical channel priority | 7 |

| Information Element | Value/remark | |
|--|--|--|
| - Downlink RLC logical channel info | Talaa, Talia | |
| - 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 | |
| - RB identity | 11 Not Droppet | |
| - PDCP info | Not Present | |
| - CHOICE RLC info type - CHOICE Uplink RLC mode | RLC info | |
| - 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 Not Present | |
| Logical channel identity CHOICE RLC size list | Configured | |
| - MAC logical channel priority | 7 | |
| - Downlink RLC logical channel info | · | |
| - Number of downlink RLC logical channels | 1 | |
| - Downlink transport channel type | DCH | |
| - DL 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 - Transmission RLC discard | TM RLC 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 - Logical channel identity | 3 Not Present | |
| - Logical channel identity - CHOICE RLC size list | Configured | |
| - MAC logical channel priority | 7 | |
| - 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 | | |
| - 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 | This IC is reported for TCO sounds and I | |
| - CTFC information | This IE is repeated for TFC numbers and reference to | |
| | TS34.108 clause 6.10.2.4 | |

| Information Element | Value/remark |
|---|---|
| - CTFC | Reference to TS34.108 clause 6.10.2.4 Parameter Set |
| - Power offset information | Treference to 1004.100 clause 0.10.2.41 drameter det |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled |
| GITOTOL GAILLY AGREEM | Gain Factors) |
| - Gain factor βc | 11 (below 64 kbps) |
| р | 9 (higher than 64 kbps) |
| | (Not Present if the above is set to Computed Gain |
| | Factors) |
| - Gain factor βd | 15 |
| ' | (Not Present if the above is set to Computed Gain |
| | Factors) |
| - Reference TFC ID | 0 |
| - CHOICE mode | FDD |
| - Power offset P p-m | Not Present |
| Deleted TrCH information list | Not Present |
| Added or Reconfigured TrCH information list | 3 DCHs added, 1 DCH reconfigured |
| - 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 | D (|
| - 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 TCO4 400 player C 40 Development Cot |
| - 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 Reference to TS34.108 clause 6.10 Parameter Set |
| - Rate matching attribute - CRC size | Reference to TS34.108 clause 6.10 Parameter Set |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 2 |
| - TFS | 2 |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | Bedicated 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 |
| - 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 | ÀII |
| - 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 | 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 | (This IE is repeated for TFI number.) |
| - Transmission Time Interval | Not Present Peterspee to TS24 109 eleves 6 10 Peremeter Set |
| - Number of Transport blocks | Reference to TS34.108 clause 6.10 Parameter Set |
| Transmission Time Interval Number of Transport blocks | Reference to TS34.108 clause 6.10 Parameter Set (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 |
| - Type of channel coding | Reference to TS34.108 clause 6.10 Parameter Set |
| - Coding Rate | Reference to TS34.108 clause 6.10 Parameter Set |
| | |

| Information Element | Value/remark |
|---|---|
| | Reference to TS34.108 clause 6.10 Parameter Set |
| - Rate matching attribute - CRC size | Reference to TS34.108 clause 6.10 Parameter Set |
| | |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - TFS | De directe ditancement alcannola |
| - 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 | (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.) |
| - 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 |
| 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 | |
| - SCCPCH TFCS | Not Present |
| - CHOICE mode | FDD |
| - 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 | |
| - 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 | -2.0 |
| - Transparent mode signalling info | Not Present |
| 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 |
| - Transparent mode signalling info | Not Present |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 8 |
| - CHOICE DL parameters | Same as UL |
| Uplink transport channel type | DCH |
| - UL TrCH identity | 3 |
| - DCH quality target | |
| - BLER Quality value | Not Present |
| - Transparent mode signalling info | Not Present |
| - 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 |
| - Transparent mode signalling info | Not Present |
| Frequency info | Not Present |
| Maximum allowed UL TX power | 33dBm |
| CHOICE channel requirement | Uplink DPCH info |
| | |

| Information Element | Value/remark |
|---|--|
| - 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 |
| - 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 Mode | FDD |
| Downlink PDSCH information | 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 | |
| - DPC mode | 0 (single) |
| - CHOICE mode | FDD |
| - Power offset P _{Pilot-DPDCH} | 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 Parameter Set |
| - TFCI existence | Reference to TS34.108 clause 6.10 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 |
| Downlink information for each radio link list | |
| - Downlink information for each radio link | |
| - 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 | |
| - Primary CPICH usage for channel estimation | Primary CPICH may be used |
| - DPCH frame offset | 0 chips |
| - Secondary CPICH info | Not Present |
| - DL channelisation code | |
| - Secondary scrambling code | 1 |
| - 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 |
| COOL OLI III OLI I AULI | HOLI TOUGHL |

Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS)

| Information Element | Value/remark | | |
|---|--|--|--|
| Message Type | | | |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 | | |
| Integrity check info | The presence of this IE is dependent on IXIT statements | | |
| | in TS 34.123-2. If integrity protection is indicated to be | | |
| | active, this IE is present with the values of the sub IEs as | | |
| manage and and tracking and a | stated below. Else, this IE and the sub-IEs are omitted. | | |
| - message authentication code | SS calculates the value of MAC-I for this message and | | |
| - RRC message sequence number | writes to this IE. 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 | | |
| RRC State indicator | CELL_DCH | | |
| UTRAN DRX cycle length coefficient | Not Present | | |
| CN information info | Not Present | | |
| URA identity | Not Present | | |
| Signalling RB information to setup RAB information for setup | Not Present | | |
| - RAB info | | | |
| - RAB identity | 0000 0101B | | |
| - CN domain identity | PS domain | | |
| - NAS Synchronization Indicator | Not Present | | |
| - Re-establishment timer | UseT315 | | |
| - RB information to setup | | | |
| - RB identity | 20 | | |
| - PDCP info | | | |
| - Support for lossless SRNS relocation | FALSE | | |
| - Max PDCP SN window size - PDCP PDU header | Not present | | |
| - Header compression information | Absent 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 infoTimer_poll_prohibit | 200 | | |
| - Timer_poll_ - 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 deliveryReceiving window size | TRUE 128 | | |
| - Downlink RLC status info | 120 | | |
| - 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 Uplink transport channel type | 1 DCH | | |
| - UL Transport channel identity | 1 DCH | | |
| - Logical channel identity | Not Present | | |
| Logical orialition (donate) | 11011100011 | | |

| Information Element | Value/remark | | |
|--|---|--|--|
| - 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 | | |
| - 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 RACH | | |
| Uplink transport channel type UL Transport channel identity | Not Present | | |
| - OE Transport channel identity - 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 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 UL Transport channel information for all transport | Not Present | | |
| 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 | This IF is reported for TFO numbers and reference to | | |
| - 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 Parameter Set | | |
| - Power offset information | Neteralize to 1004.100 diause 0.10.2.41 diameter out | | |
| - 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 above is set to Computed Gain | | |
| Onin factor Od | Factors) | | |
| - Gain factor βd | 15 (Not Draggert if the above is get to Computed Cain | | |
| | (Not Present if the above is set to Computed Gain Factors) | | |
| - Reference TFC ID | 0 | | |
| - CHOICE mode | FDD | | |
| - Power offset P p-m | 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 | 1 | | |
| - TFS | | | |
| - CHOICE Transport channel type | Dedicated transport channels | | |
| Dynamic Transport format information RLC Size | Reference to TS34.108 clause 6.10 Parameter Set | | |
| - RLC Size - 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 | | |
| | | | |

| Information Element | Valua/ramark |
|---|---|
| - Coding Rate | Value/remark 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 | Not Present |
| DRAC list | |
| 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 - CHOICE CTFC Size | |
| - CHOICE CIPC Size - CTFC information | This IE is repeated for TEC numbers and reference to |
| - 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 Parameter Set |
| - Power offset information | Not present |
| Deleted TrCH information list | Not Present |
| Added or Reconfigured TrCH information list | |
| - Added or Reconfigured DL TrCH information | |
| - 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 6.10 Parameter Set |
| - Number of TBs and TTI List | (This IE is repeated for TFI number.) Not Present |
| Transmission Time IntervalNumber of Transport blocks | Reference to TS34.108 clause 6.10 Parameter Set |
| - Semi-static Transport Format information | Reference to 1354.100 clause 6.10 Farameter Set |
| - 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 |
| - DCH quality target | |
| - BLER Quality value | -2.0 |
| - Transparent mode signalling info | Not Present |
| Frequency info | Not Present |
| Maximum allowed UL TX power | 33dBm |
| CHOICE channel requirement - Uplink DPCH power control info | Uplink DPCH info |
| - Uplink DPCH power control into - DPCCH power offset | -6dB |
| - 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 | 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 Mode | FDD Not Present |
| - Downlink PDSCH information Downlink information common for all radio links | Not Present |
| - Downlink DPCH info common for all RL | |
| - Timing indicator | Maintain |
| - CFN-targetSFN frame offset | Not Present |
| - Downlink DPCH power control information | TOCC TOOOTIC |
| 25 | <u> </u> |

| Information Element | Value/remark |
|--|--|
| - DPC mode | 0 (single) |
| - CHOICE mode | FDD |
| - Power offset P _{Pilot-DPDCH} | 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 Parameter Set |
| - TFCI existence | Reference to TS34.108 clause 6.10 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 |
| Downlink information for each radio link list | |
| Downlink information for each radio link | |
| - 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 | |
| Primary CPICH usage for channel estimation | Primary CPICH may be used |
| - DPCH frame offset | 0 chips |
| Secondary CPICH info | Not Present |
| DL channelisation code | |
| Secondary scrambling code | 1 |
| 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 |

Contents of RADIO BEARER SETUP message: AM or UM

| Information Element | Condition | Value/remark |
|---|---------------------------|---|
| Message Type | A1, A4, A5, | |
| RRC transaction identifier | A6, A7, A8 | Arbitrarily colocts an integer between 0 and 2 |
| Integrity check info | | Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT |
| Integrity check into | | statements in TS 34.123-2. If integrity |
| | | protection is indicated to be active, this IE is |
| | | present with the values of the sub IEs as |
| | | stated below. 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. |
| - RRC message sequence number | | SS provides the value of this IE, from its |
| Integrity protection made info | | internal counter. Not Present |
| Integrity protection mode info Ciphering mode info | | Not Present |
| Activation time | A1, A4, A7, | (256+CFN-(CFN MOD 8 + 8))MOD 256 |
| 7 totavation time | A8 | (200 / 0/ / / (0/ / / // // // / / / / // // // // // / |
| Activation time | A5, A6 | Not Present |
| New U-RNTI | | Not Present |
| New C-RNTI | A1, A4, A7, | Not Present |
| | A8 | |
| New C-RNTI New DSCH-RNTI | A5, A6 | '1010 1010 1010 1010' Not Present |
| New DSCH-RNTI | A1, A4, A5, A6, A7, A8 | Not Present |
| RRC State indicator | A1, | CELL_DCH |
| | A4,A7,A8 | |
| RRC State indicator | A5, A6 | CELL_FACH |
| UTRAN DRX cycle length coefficient | A1, A4, A5, A6,A7,A8 | Not Present |
| CN information info | A0,A7,A0 | Not Present |
| URA identity | | Not Present |
| Signalling RB information to setup | | Not Present |
| RAB information for setup | A1,A7 | |
| - RAB info | | 0000 0004 D |
| - RAB identity - CN domain identity | | 0000 0001B CS domain |
| - NAS Synchronization Indicator | | Not Present |
| - Re-establishment timer | | useT315 |
| | | |
| - RB information to setup | | |
| - RB identity | | 10 |
| - PDCP info | | Not Present |
| - CHOICE RLC info type | | RLC info |
| - CHOICE Uplink RLC mode - Transmission RLC discard | | TM RLC 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 | | 1 |
| Logical channel identity CHOICE RLC size list | | Not Present Configured |
| - CHOICE RLC Size list - MAC logical channel priority | | Configured 1 |
| 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 | 1.0 | Not Present |
| RAB information for setup | A8 | |
| - RAB info | | |

| Information Element | Condition | Value/remark |
|---|-----------|------------------------|
| - RAB identity | | 0000 0001B |
| - CN domain identity | | CS domain |
| - NAS Synchronization Indicator | | Not Present |
| - Re-establishment timer | | useT315 |
| - 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 Not Broomt |
| - Logical channel identity | | Not Present |
| - CHOICE RLC size list | | Configured |
| MAC logical channel priority Downlink RLC logical channel info | | 7 |
| 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 |
| - 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 Not Droppet |
| - Logical channel identity | | Not Present |
| - CHOICE RLC size list | | Configured 7 |
| MAC logical channel priority Downlink RLC logical channel info | | ' |
| Number of downlink RLC logical channels | | 1 |
| Downlink transport channel type | | DCH |
| - DL 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 | | N. P. |
| - RLC logical channel mapping indicator | | Not Present |
| - Number of uplink RLC logical channels | | 1 DCH |
| - Uplink transport channel type | | DCH |
| - UL Transport channel identity | | 3 Not Present |
| Logical channel identity CHOICE RLC size list | | Not Present Configured |
| OTTOTOL INLO SIZE IISI | <u> </u> | _ Comgared |

| Information Element | Condition | Value/remark |
|---|------------|--|
| - MAC logical channel priority | Janaition | 7 |
| - 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 |
| RAB information for setup | A4, A5, A6 | |
| - RAB info | | (AM DTCH for PS domain) |
| - RAB identity | | 0000 0101B |
| - CN domain identity | | PS domain |
| - NAS Synchronization Indicator | | Not Present |
| - Re-establishment timer | | useT315 |
| - RB information to setup | | 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 | | |
| - 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 Not Present |
| - Poll_PDU - Poll_SDU | | Not Present |
| - Poll_SDU - Last transmission PDU poll | | TRUE |
| - Last transmission 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 | | 2 PPMuvOntions |
| - Information for each multiplexing option | | 2 RBMuxOptions |
| RLC logical channel mapping indicator Number of uplink RLC logical channels | | Not Present |
| - Number of uplink RLC logical channels - 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 | | 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 PACH |
| - Uplink transport channel type | | RACH Not Present |
| - UL Transport channel identity | | Not Present 7 |
| - Logical channel identity - CHOICE RLC size list | | Explicit list |
| - RLC size index | | Reference to TS34.108 clause 6 Parameter |
| I TALO SIZO ITIUGA | I | Transferred to 1004.100 diause of arameter |

| Information Element | Condition | Value/remark |
|---|--------------------------|---|
| | | 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 | | 7 |
| RB information to be affected | A1, A4, A5, A6,A7,A8 | Not Present |
| Downlink counter synchronisation info | A0,A7,A0 A1, A4, A5, | Not Present |
| Downlink counter synchronisation into | A1, A4, A5, A6,A7,A8 | Not Flesent |
| UL Transport channel information for all transport | A1,A4,A7, | |
| channels | A8 | |
| - 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 | | Number of hite used must be an audit to a |
| - 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 |
| - GTI G IIIIGITIIAIIGIT | | 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 |
| Cain factor Rd | | Gain Factors) |
| - Gain factor βd | | (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 |
| UL Transport channel information for all transport | A5, A6 | Not Present |
| channels | | |
| - PRACH TFCS | | |
| - CHOICE mode | | |
| - TFC subset | | |
| - UL DCH TFCS Deleted UL TrCH information | Λ1 Λ <i>1</i> Λ <i>E</i> | Not Present |
| Deleted OF HOLI IIIIOIIIIIIIIIIII | A1, A4, A5, A6,A7,A8 | Not Present |
| Added or Reconfigured UL TrCH information | A6,A7,A8 A1 | |
| - 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 |
| - CHOICE Logical Channel list | | Set All |
| - Semi-static Transport Format information | | |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |

| Information Element | Condition | Value/remark |
|--|-----------|--|
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter Set |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter Set |
| Added or Reconfigured UL TrCH information | A4,A7 | 2 TrCHs(DCH for DCCH and DCH for DTCH) |
| - Uplink transport channel type | | DCH |
| - UL Transport channel identity | | 5 |
| - TFS | | |
| - CHOICE Transport channel type | | Dedicated transport channels |
| - Dynamic Transport format information | | D-f |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter |
| - Number of TBs and TTI List | | Set (This IE is reported for TEI number.) |
| - Transmission Time Interval | | (This IE is repeated for TFI number.) Not Present |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter |
| - Number of Transport blocks | | Set |
| - CHOICE Logical Channel list | | All |
| - Semi-static Transport Format information | | , w |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter |
| Transmission and merval | | Set |
| - Type of channel coding | | Reference to TS34.108 clause 6.10 Parameter Set |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - Uplink transport channel type | | DCH |
| - UL Transport channel identity | | 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 |
| - KLO SIZE | | 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 |
| Training of Training of Training | | 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 |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set |
| Added or Reconfigured UL TrCH information | A8 | 4 TrCHs(DCH for DCCH and 3DCHs for |
| The state of the s | 1 | DTCH) |
| - 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 6.10 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 |
| | | the same to the same of the sa |

| Information Element | Condition | Value/remark |
|---|-----------|---|
| | | 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 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 TFS | | DCH 1 |
| - 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 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 | | 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 |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| Uplink transport channel type UL Transport channel identity | | Set DCH 2 |
| TFSCHOICE 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 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 | | 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 |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Uplink transport channel type | | Set DCH |
| - UL Transport channel identity - TFS | | 3 |
| - 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.) |

| Information Element | Condition | Value/remark |
|--|-------------|---|
| - 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 |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter Set |
| CHOICE mode | | FDD |
| - CPCH set ID | | Not Present |
| Added or Reconfigured TrCH information for | | Not Present |
| DRAC list | | |
| Added or Reconfigured UL TrCH information | A5, A6 | Not Present |
| CHOICE mode | A1, A4, A5, | FDD |
| ODOLL SALID | A6,A7,A8 | Net Decemb |
| - CPCH set ID | | Not Present |
| - Added or Reconfigured TrCH information for DRAC list | | Not Present |
| Information for DRAC list | | |
| DL Transport channel information common for all | A1,A7,A8 | |
| transport channel | AT,AT,AO | |
| - SCCPCH TFCS | | Not Present |
| - CHOICE mode | | FDD |
| - CHOICE DL parameters | | SameasUL |
| DL Transport channel information common for all | A4 | Gameason |
| 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 | | |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover |
| | | all combinations of CTFC from clause |
| - CTFC information | | 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 |
| - 011 0 | | Parameter Set |
| - Power offset information | | Not Present |
| DL Transport channel information common for all | A5, A6 | Not Present |
| transport channel | 1.5, 7.6 | |
| - SCCPCH TFCS | | |
| - CHOICE mode | | |
| - CHOICE DL parameters | | |
| Deleted DL TrCH information | A1, A4, A5, | Not Present |
| | A6,A7,A8 | |
| Added or Reconfigured DL TrCH information | A1 | |
| - 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 | | -2.0 |
| - Transparent mode signalling info | | Not Present |
| Added or Reconfigured DL TrCH information | A4,A7 | 2 TrCHs(DCH for DCCH and DCH for DTCH) |
| - Downlink transport channel type | | DCH |

| Information Element | Condition | Value/remark |
|--|-----------|---|
| - DL Transport channel identity | | 10 |
| - CHOICE DL parameters | | Same as UL |
| - Uplink transport channel type | | DCH |
| - UL TrCH identity | | 5 |
| - DCH quality target | | |
| | | Not Droppet |
| - BLER Quality value | | Not Present |
| - Transparent mode signalling info | | Not Present |
| Downlink transport channel type | | DCH |
| - DL Transport channel identity | | 6 |
| - CHOICE DL parameters | | Explicit |
| - TFS | | |
| - CHOICE Transport channel type | | Dedicated transport channel |
| - 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.) |
| - Dynamic transport format information | | (This IE is repeated for Tri Hamber.) |
| - 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 Parameter |
| 3 - 1 - 3 - 1 - 1 | | Set |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter |
| Trate matering attribute | | Set |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter |
| - ORG SIZE | | |
| DOLL | | Set |
| - DCH quality target | | |
| - BLER Quality value | | -2.0 |
| - Transparent mode signalling info | | Not Present |
| Added or Reconfigured DL TrCH information | A8 | 4 TrCHs(DCH for DCCH and 3DCHs for |
| | | 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 | | Not Present |
| | | |
| - Transparent mode signalling info | | Not Present |
| - Downlink transport channel type | | DCH |
| - DL Transport channel identity | | 6 |
| - CHOICE DL parameters | | Explicit |
| - TFS | | |
| - CHOICE Transport channel type | | Dedicated transport channel |
| 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.) |
| - Dynamic transport format information | | (i = i = repeated for i i i i idilloon) |
| - Transmission Time Interval | | Not Present |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter |
| - Number of Transport blocks | | |
| Comi etatia Transport Format information | | Set |
| - Semi-static Transport Format information | | D (. T004 400 L . 0.40 D |
| - 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 |
| | | Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | |

| Information Element | Condition | Value/remark |
|---|---|---|
| DOLL | | Set |
| - DCH quality target - BLER Quality value | | -2.0 |
| - Transparent mode signalling info | | 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 | | |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter |
| Number of TDs and TTLL ist | | 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 |
| 1 11 11 11 11 11 11 | | 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 |
| Coding Rate | | Set Potoropo to TS24 109 played 6 10 Porometer |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter Set |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter |
| Nate matering attribute | | Set |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - DCH quality target | | |
| - BLER Quality value | | Not Present |
| Transparent mode signalling info | | Not Present |
| - Downlink transport channel type | | DCH |
| - DL Transport channel identity | | 8 Familiait |
| - CHOICE DL parameters - TFS | | Explicit |
| - CHOICE Transport channel type | | Dedicated transport channel |
| - Dynamic transport format information | | Bodicatod transport onarmor |
| - 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 Parameter |
| - Semi-static Transport Format information | | Set |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter |
| Transmission and morvar | | 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 |
| CPC size | | Set Potoroneo to TS34 109 clause 6 10 Parameter |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter Set |
| - DCH quality target | | |
| - BLER Quality value | | Not Present |
| - Transparent mode signalling info | | Not Present |
| Added or Reconfigured DL TrCH information | A5, A6 | Not Present |
| Frequency info | A1, A4, A5, | |
| LIADEON E LAN | A6 | D |
| - UARFCN uplink (Nu) | | Reference to clause 5.1 Test frequencies |
| - UARFCN downlink (Nd) Maximum allowed UL TX power | A1, A4, A7, | Reference to clause 5.1 Test frequencies 33dBm |
| waxiiiuiii allowed OL 17 powel | A1, A4, A7, A8 | JOGDIII |
| Maximum allowed UL TX power | A5, A6 | Not Present |
| CHOICE channel requirement | | Uplink DPCH info |
| STORE SHARMOF TOYUNGING | [/\lambda /\lambda | 1 opinik bi ori inio |

| Information Element | Condition | Value/remark |
|---|-------------------------|--|
| | A8 | |
| - 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 |
| - 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 |
| TEOL 1.1 | | Set Tool 400 h a 40 B |
| - TFCI existence | | Reference to TS34.108 clause 6.10 Parameter |
| Normalis and EDI hit | | Set |
| - Number of FBI bit | | Reference to TS34.108 clause 6.10 Parameter |
| Dungturing Limit | | Set |
| - Puncturing Limit | | Reference to TS34.108 clause 6.10 Parameter Set |
| CHOICE channel requirement | A5,A6 | Not Present |
| CHOICE Charmer requirement | A1, A4, A5, | FDD |
| CHOICE Mode | A1, A4, A5, A6,A7,A8 | |
| - Downlink PDSCH information | 70,77,70 | Not Present |
| Downlink information common for all radio links | A1 | INOLI IGSGIIL |
| - Downlink DPCH info common for all RL | ^ ' | |
| - Timing indicator | | Maintain |
| - CFN-targetSFN frame offset | | Not Present |
| - Downlink DPCH power control information | | Not i resent |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 0 |
| - DL rate matching restriction information | | Not Present |
| - Spreading factor | | Reference to TS34.108 clause 6.10 Parameter |
| 3 | | 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 | A4,A7,A8 | |
| - 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 _{Pilot-DPDCH} | | 0 Net Brosset |
| - DL rate matching restriction information | | Not Present |
| - Spreading factor | | Reference to TS34.108 clause 6.10 Parameter |
| Fixed or Flevible Position | | Set Peteronee to TS34 108 clause 6 10 Parameter |
| - Fixed or Flexible Position | | Reference to TS34.108 clause 6.10 Parameter |
| TECL eviptorses | | Set |
| - TFCI existence | | Reference to TS34.108 clause 6.10 Parameter Set |
| - CHOICE SE | | |
| - CHOICE SF | | Reference to TS34.108 clause 6.10 Parameter |
| - CHOICE mode | | Set FDD |
| - DPCH compressed mode info | | Not Present |
| - DPCH compressed mode into - TX Diversity mode | | None |
| - SSDT information | | Not Present |
| - Default DPCH Offset Value | | Arbitrary set to value 0306688 by step of 512 |
| Downlink information common for all radio links | A5,A6 | Not Present |
| Downlink information confinon for all radio links | AD,AD | INOUTIESEM |

| Information Element | Condition | Value/remark |
|---|-----------|--|
| Downlink information for each radio link list | A1 | |
| - Downlink information for each radio link | | |
| - Choice mode | | FDD |
| - Primary CPICH info | | |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| Trimary solutioning code | | 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| | | |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | | D: ODIOU |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | 0 chips |
| - Secondary CPICH info | | Not Present |
| - DL channelisation code | | |
| - Secondary scrambling code | | 1 |
| - 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,A7,A8 | |
| - 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 |
| - Downlink DPCH info for each RL | | THOU TOOOTIC |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | Set to value : Default DPCH Offset Value mod |
| - DPCH frame offset | | |
| O I ODIOU: (| | 38400 |
| - Secondary CPICH info | | Not Present |
| - DL channelisation code | | |
| - Secondary scrambling code | | 1 |
| - 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 | 11011100011 |
| - Downlink information for each radio link | 73 | |
| | | EDD |
| - Choice mode | | FDD |
| - Primary CPICH info | 1 | |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| | 1 | 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | 1 | Not present |
| - SCCPCH information for FACH | | Not Present |
| Downlink information for each radio link list | A6 | |
| - Downlink information for each radio link | 1 | |
| - Choice mode | | FDD |
| - Primary CPICH info | 1 | |
| II · · · · · · · · · · · · · · · · · · | | Different from the Default cotting in TOO4 400 |
| - Primary scrambling code | 1 | Different from the Default setting in TS34.108 |
| PDOOLL 34 ONO DOLL: 4 | | clause 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | 1 | Not Present |
| - Downlink DPCH info for each RL | | Not present |
| - SCCPCH information for FACH | | Not Present |

| Condition | Explanation |
|--|--|
| A1 | This IE need for "Non speech to CELL_DCH from CELL_DCH in CS" |
| A2 is defined in TS34.108 clause 9 in message "RADIO BEARER SETUP message: AM or UM (Speech in CS)". | This IE need for "Speech to CELL_DCH from CELL_DCH in CS" |
| A3 is defined in TS34.108 clause 9 in message "RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH in PS)". | 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

| 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 |
| 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 or released the last RB(s) mapped to RLC-TM for a CN domain. 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 checked |
| | |

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 | The presence if this IE is dependent on IXIT statements in |
| | TS 34.123-2. if integrity protection is indicated to be |
| | active, this IE shall be present with the values of the sub |
| | IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| - 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. |
| - 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 | Not checked |
| succeeded | |

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

| Information Element | Condition | Value/remark |
|--|-----------------------|---|
| Message Type | A1,A2,A3, | |
| RRC transaction identifier | A4,A5,A6 | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | | The presence of this IE is dependent on IXIT |
| | | statements in TS 34.123-2. If integrity |
| | | protection is indicated to be active, this IE is |
| | | present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are |
| | | omitted. |
| - message authentication code | | SS calculates the value of MAC-I for this |
| DD0 1 | | message and writes to this IE. |
| - 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 |
| New U-RNTI | 73,70 | Not Present |
| New C-RNTI | A1, A2, A3, | Not Present |
| N. O. DAITI | A4, | |
| New C-RNTI New DSCH-RNTI | A5, A6 A1, A2, A3, | '1010 1010 1010 1010' Not Present |
| New Doci - Kin II | A4, A5, A6 | Not i lesent |
| RRC State indicator | A1, A2, A3, | CELL_DCH |
| RRC State indicator | A4 A5, A6 | CELL FACH |
| UTRAN DRX cycle length coefficient | A1,A2,A3, | Not Present |
| | A4,A5,A6 | |
| CN information info | | Not Present Not Present |
| URA identity RAB information to reconfigure list | | 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 |
| - RB information to reconfigure | | ASN.1". (UM DCCH for RRC) |
| - RB identity | | 1 |
| - PDCP info | | Not Present |
| - PDCP SN info | | Not Present |
| - RLC info - RB mapping info | | Not Present Not Present |
| - RB stop/continue | | Not Present |
| - RB information to reconfigure | | (AM DCCH for RRC) |
| - RB identity | | 2 |
| - PDCP info - PDCP SN info | | Not Present 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 High priority) |
| - PDCP info | | Not Present |
| - PDCP SN info | | Not Present |
| - RLC info | | Not Present |
| - RB mapping info - RB stop/continue | | Not Present Not Present |
| - RB information to reconfigure | | (AM DCCH for NAS_DT Low priority) |
| - RB identity | | 4 |
| - PDCP info | | Not Present |
| - PDCP SN info - RLC info | | Not Present Not Present |
| - RB mapping info | | Not Present |
| - RB stop/continue | | Not Present |
| - RB information to reconfigure | | (TM DTCH) |
| - RB identity | 1 | 10 |

| Information Element | Condition | Value/remark |
|--|-----------------|--|
| - PDCP info | | Not Present |
| - PDCP SN info | | Not Present |
| - RLC info | | Not Present |
| - RB mapping info | | Not Present |
| - RB stop/continue | A 0 | 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 |
| - RB mapping info | | Not Present Not Present |
| RB stop/continueRB 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 - RB identity | | (AM DCCH for NAS_DT High priority) 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 | | (AM DCCH for NAS_DT Low priority) |
| - RB identity - PDCP info | | 4 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 - PDCP info | | 10 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 | | 11 Not Broomt |
| - PDCP info - PDCP SN info | | Not Present Not Present |
| - RLC info | | Not Present |
| - RB mapping info | | Not Present |
| - RB stop/continue | | Not Present |
| - RB information to reconfigure | | (TM DTCH) |
| | | (This IE is needed for 12.2 kbps and 10.2 |
| - PR identity | | kbps) 12 |
| - 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 list | A3,A4,A5, A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with |
| | | ASN.1". |
| - RB information to reconfigure - RB identity | | (UM DCCH for RRC) |
| - PDCP info | | Not Present |
| - PDCP SN info | | Not Present |
| - RLC info | | Not Present |

| Information Element | Condition | Value/remark |
|--|----------------------|--|
| - 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 |
| - 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 information to reconfigure | | (AM DTCH) |
| - RB identity | | 20 |
| - PDCP info | | Not Present |
| - PDCP SN info | | Not Present |
| - RLC info | | Not Present |
| - RB mapping info | | Not Present |
| - RB stop/continue RB information to be affected A | A 4 A 2 | Not Present |
| | A1, A2, A3,A4,A5, | Not Present |
| | A3,A4,A3, A6 | |
| | A1, A2, | Not Present |
| | A5,A6 | 110111100111 |
| | | |
| | | |
| | A3, A4 | |
| channels - PRACH TFCS | | Not Dropont |
| | | Not Present |
| - CHOICE mode - TFC subset | | FDD Not Present |
| - UL DCH TFCS | | Not Flesent |
| - CHOICE TFCI signalling | | Normal |
| - TFCI Field 1 information | | INOITHAL |
| - CHOICE TFCS representation | | Complete reconfiguration |
| - TFCS complete reconfigure information | | |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover |
| 3110102 011 0 0120 | | 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) |
| 1 | | |
| I I | | 9 (higher than 64 kbps) |
| | | 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set |
| | | (Not Present if the CHOICE Gain Factors is set |
| - Gain factor βd | | |
| - Gain factor βd | | (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 |
| - Gain factor βd | | (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set |
| - Gain factor βd - Reference TFC ID | | (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 |

| Information Element | Condition | Value/remark |
|---|--------------------------|---|
| - Power offset P p-m | | Not Present |
| Deleted UL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present |
| Added or Reconfigured UL TrCH information | A1, A2, A5,A6 | Not Present |
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) |
| Uplink transport channel type UL Transport channel identity | | DCH 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 Number of Transport blocks | | Not Present Reference to TS34.108 clause 6.10 Parameter |
| - CHOICE Logical Channel list | | Set All |
| - Semi-static Transport Format information | | 7 111 |
| - Transmission time interval | | Reference to TS34.108 clause 6.10 Parameter |
| - Type of channel coding | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Uplink transport channel type | | Set DCH |
| - UL Transport channel identity | | 1 |
| - TFS- CHOICE Transport channel type | | Dedicated transport shappeds |
| - Dynamic Transport challing type - Dynamic Transport format information | | Dedicated transport channels |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter Set |
| Number of TBs and TTI ListTransmission Time Interval | | (This IE is repeated for TFI number.) Not Present |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter |
| - CHOICE Logical Channel list | | Set 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 |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| Added or Decention and III. T-OUT interpreting | A 2 | Set (DOLL for DTOLL) |
| Added or Reconfigured UL TrCH information | A3 | (DCH for DTCH) |
| Uplink transport channel type UL Transport channel identity | | DCH |
| - OE Transport channel identity - TFS | | |
| - CHOICE Transport channel type | | Dedicated transport channels |
| Dynamic Transport format informationRLC Size | | Reference to TS34.108 clause 6.10 Parameter |
| - Number of TBs and TTI List | | 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 |

| Information Element | Condition | Value/remark |
|--|--------------------------|--|
| - Type of channel coding | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Coding Rate | | Set Reference to TS34.108 clause 6.10 Parameter |
| - Rate matching attribute | | Set Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| CHOICE mode | A1,A2,A3, | Set FDD |
| - CPCH set ID | A4,A5,A6 | Not Present |
| - Added or Reconfigured TrCH information for | | Not Present |
| DRAC list DL Transport channel information common for all | A1, A2, A5, | Not Present |
| transport channel | A6 | Not Fresent |
| DL Transport channel information common for all transport channel | A3,A4 | |
| - SCCPCH TFCS | | Not Present |
| - CHOICE mode | | FDD |
| - CHOICE DL parameters | | Explicit |
| - DL DCH TFCS - 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 |
| - CTFC information | | TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and |
| - CTFC | | reference to TS34.108 clause 6.10.2.4 Reference to TS34.108 clause 6.10.2.4 |
| - Power offset information | | Parameter Set Not Present |
| Deleted DL TrCH information | A1, A2, A3, A4, A5,A6 | Not Present |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6 | Not Present |
| Added or Reconfigured DL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) |
| - Downlink transport channel type | | DCH |
| DL Transport channel identity CHOICE DL parameters | | 10 Same as UL |
| - Uplink transport channel type | | DCH |
| - UL TrCH identity | | 5 |
| - DCH quality target | | Not Present |
| BLER Quality value Transparent mode signalling info | | Not Present |
| - Downlink transport channel type | | DCH |
| - DL Transport channel identity | | 6 |
| - CHOICE DL parameters | | Explicit |
| - TFS - CHOICE Transport channel type - Dynamic transport format information | | Dedicated transport channel |
| - RLC Size | | Reference to TS34.108 clause 6.10 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 6.10 Parameter Set |
| - Semi-static Transport Format information | | B (|
| - 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 |

| Information Element | Condition | Value/remark |
|---|-------------|---|
| - Rate matching attribute | Contaition | Reference to TS34.108 clause 6.10 Parameter |
| - Nate matering attribute | | Set |
| - CRC size | | Reference to TS34.108 clause 6.10 Parameter |
| DCH quality target | | Set |
| - DCH quality target - BLER Quality value | | -2.0 |
| | | Not Present |
| - Transparent mode signalling info | 10 | Not Present |
| Added or Reconfigured DL TrCH information | A3 | POLL |
| - Downlink transport channel type | | DCH |
| - DL Transport channel identity | | 6 Familiait |
| - CHOICE DL parameters | | Explicit |
| - TFS | | De directe ditropper article annual |
| - CHOICE Transport channel type | | Dedicated transport channel |
| - Dynamic transport format information | | D-f |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter |
| Number of TDe and TTLL ist | | Set |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) |
| - Dynamic transport format information | | Not Decemb |
| - Transmission Time Interval | | Not Present |
| - Number of Transport blocks | | Reference to TS34.108 clause 6.10 Parameter |
| 0 1 1 2 7 1 7 1 7 | | Set |
| - Semi-static Transport Format information | | D (|
| - 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 |
| - DCH quality target | | |
| - BLER Quality value | | -2.0 |
| - Transparent mode signalling info | | Not Present |
| Frequency info | A1,A2,A3, | |
| | A4,A5,A6 | |
| - UARFCN uplink (Nu) | | Reference to clause 5.1 Test frequencies |
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies |
| Maximum allowed UL TX power | A1,A2,A3, | 33dBm |
| | A4,A5,A6 | |
| CHOICE channel requirement | A1, A2, A3, | Uplink DPCH info |
| | A4 | |
| -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 |
| - 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 |
| OF TOTOL WIDGE | A4,A5,A6 | |
| - Downlink PDSCH information | A+,A0,A0 | Not Present |
| Downlink PDSCH Information Downlink information common for all radio links | A5, A6 | Not Present |
| Downlink information common for all radio links | | INOUT TESETIL |
| Domining inionnation common for all radio links | A1, A2, A3 | |

| Information Element | Condition | Value/remark |
|---|------------|--|
| - Downlink DPCH info common for all RL | | |
| - Timing indicator | | Maintain |
| - CFN-targetSFN frame offset | | Not Present |
| | | Not Flesent |
| - Downlink DPCH power control information | | 0 (-in al-) |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 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 Parameter |
| Thou of French Foldon | | Set |
| - TFCI existence | | Reference to TS34.108 clause 6.10 Parameter |
| - TFOI existence | | |
| 0110105.05 | | 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 |
| Downlink information common for all radio links | A4 | |
| - Downlink DPCH info common for all RL | '`' | |
| | | Initialise |
| - Timing indicator | | Initialise Not Present |
| - CFN-targetSFN frame offset | | Not Present |
| - Downlink DPCH power control information | | |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 0 |
| - DL rate matching restriction information | | Not Present |
| - Spreading factor | | Reference to TS34.108 clause 6.10 Parameter |
| Oproduing ractor | | Set |
| - Fixed or Flexible Position | | Reference to TS34.108 clause 6.10 Parameter |
| - Fixed of Flexible Position | | |
| TEOL : 4 | | Set Division of the British Control of the Br |
| - TFCI existence | | Reference to TS34.108 clause 6.10 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 |
| - Delault DI OTT Offset Value | | |
| Describes information non varieties link link | A4 A2 A2 | step of 512 |
| Downlink information per radio link list | A1, A2, A3 | |
| -Downlink information for each radio link | | 500 |
| - 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 |
| - Downlink DPCH info for each RL | | |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | |
| | | 0 chips Not Present |
| - Secondary CPICH info | | INOL PIESEIIL |
| - Secondary scrambling code | | |
| - channelisation code | | |
| - DL channelisation code | | |
| - Secondary scrambling code | | 2 |
| - 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 | i | Not Present |
| | | LN (D) |
| - SCCPCH information for FACH Downlink information per radio link list | A4 | Not Present |

| Information Element | Condition | Value/remark |
|--|-----------|--|
| -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 |
| - Downlink DPCH info for each RL | | |
| - 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 |
| - Secondary scrambling code | | |
| - channelisation code | | |
| - DL channelisation code | | |
| - Secondary scrambling code | | 2 |
| - 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 | A5 | |
| - 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 |
| - Downlink DPCH info for each RL | | Not present |
| - SCCPCH Information for FACH | | Not Present |
| - Downlink information for each radio link | A6 | |
| - Choice mode | | FDD |
| - Primary CPICH info | | |
| - Primary scrambling code | | Different from the Default setting in TS34.108 |
| | | clause 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | | Not Present |
| - Secondary CCPCH info | | 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 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 | The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 FDD |
| 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 reconfiguration procedure. Else, this IE is absent. |
| Radio bearer uplink ciphering activation time info Uplink counter synchronisation info | Not checked Not checked |

Contents of RADIO BEARER RELEASE message: AM or UM

| 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 | | The presence of this IE is dependent on IXIT |
| | | statements in TS 34.123-2. If integrity |
| | | protection is indicated to be active, this IE is |
| | | present with the values of the sub IEs as |
| | | stated below. Else, this IE and the sub-IEs are |
| | | omitted. |
| - message authentication code | | SS calculates the value of MAC-I for this |
| 3 | | message and writes to this IE. |
| - 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 |
| | A4, A7, A8 | |
| Activation time | A5, A6 | Not Present |
| New U-RNTI | , - | Not Present |
| New C-RNTI | A1,A2,A3, | Not Present |
| | A4 | |
| New C-RNTI | A5, A6, A7, | '1010 1010 1010 1010' |
| | A8 | |
| New DSCH-RNTI | A1, A2, A3, | Not Present |
| | A4, A5, A6, | |
| | A7, A8 | |
| RRC State indicator | A1,A2, A3, | CELL_DCH |
| | A4 | _ |
| RRC State indicator | A5, A6, A7, | CELL_FACH |
| | A8 | _ |
| UTRAN DRX cycle length coefficient | A1,A2,A3, | Not Present |
| • | A4,A5,A6, | |
| | A7, A8 | |
| CN information info | | Not Present |
| Signalling Connection release indication | | Not Present |
| URA identity | | Not Present |
| RAB information to reconfigure list | | Not Present |
| RB information to release | A1,A2, A7, | |
| | A8 | |
| - RB identity | | 10 |
| RB information to release | A2, A8 | |
| - RB identity | | 11 |
| RB information to release | A2, A8 | |
| - RB identity | | 12 |
| RB information to release | A3, A4, A5, | |
| | A6 | |
| - RB identity | | 20 |
| RB information to be affected | A1,A2, | Not Present |
| | A3,A4,A5, | |
| | A6, A7, A8 | |
| Downlink counter synchronisation info | A1,A2,A3, | Not Present |
| | A4,A5,A6, | |
| | A7, A8 | |
| UL Transport channel information for all transport | A1, A2, A3, | TFCS reconfigured to fit the new transport |
| channels | A4, A5, A6 | channel configuration. |
| UL Transport channel information for all transport | A5, A6 | Not Present |
| channels | | |
| Deleted UL TrCH Information | A1,A2, A3, | |
| | A7, A8, A4 | |
| Uplink transport channel type | | DCH |
| - Transport channel identity | | 1 |
| Deleted UL TrCH Information | A2, A8 | |
| Uplink transport channel type | 1 | 0 |
| - Transport channel identity | | DCH 2 |

| Information Element | | Value/remark |
|--|--------------------------------------|--|
| Deleted UL TrCH Information | A2, A8 | Valuoriemaik |
| - Uplink transport channel type | 712,710 | DCH |
| - Transport channel identity | | 3 |
| Deleted UL TrCH Information | A4, A5,A6 | Not Present |
| Added or Reconfigured UL TrCH information | A4, A6, A7, A8 | Not Present |
| Added or Reconfigured UL TrCH information | A1, A2, A3, A5 | TrCHs(DCH for DCCH) |
| - 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 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |
| - Number of TBs and TTI List | | (This IE is repeated for TFI number.) |
| - Transmission Time Interval | | According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |
| - Number of Transport blocks | | According to TS34.108 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 kbps signalling radio bearer) |
| - Type of channel coding | | 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 |
| Data matakia mataikuta | | (standalone 13.6 kbps signalling radio bearer) |
| - Rate matching attribute | | 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 signalling radio bearer) |
| DL Transport channel information for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. |
| DL Transport channel information for all transport channels | A5, A6 | Not Present |
| Deleted DL TrCH Information | A1, A2, A3, A7, A8,A4 | |
| Downlink transport channel type Transport channel identity | ,, ,, , | DCH 6 |
| 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 | | DCH |
| - Transport channel identity | A 4 A 5 A 6 | 8 |
| Deleted DL TrCH Information Added or Reconfigured DL TrCH information | A4, A5,A6 A4, A6, A7, | Not Present Not Present |
| C C | A8 | |
| Added or Reconfigured DL TrCH information | A1, A2, A3, A5 | 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 | | Not Present |
| - Transparent mode signalling info | | Not Present |
| Frequency info | A1,A2,A3, A4,A5,A6, | Not resent |
| - UARFCN uplink (Nu) | A7, A8 | Reference to clause 5.1 Test frequencies |
| - UARFON dpilifik (Nd) - UARFON downlink (Nd) | | Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies |
| Maximum allowed UL TX power | | 33dBm |
| Maximum anowed OL TA POWE | | OOGDIII |

| Information Element | | Value/remark |
|--|---------------------|---|
| CHOICE channel requirement | A5, A6, A7, | Not Present |
| CHOICE sharped requirement | A8 | Haliak DDCH info |
| CHOICE channel requirement | A1,A2,A3, A4 | Uplink DPCH info |
| - Uplink DPCH power control info | | |
| - DPCCH power offset | | -6dB |
| - PC Preamble | | 1 frame |
| - SRB delay | | 7 frames |
| - Power Control Algorithm | | Algorithm1 1dB |
| TPC step size Scrambling code type | | Long |
| - Scrambling code type - 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 |
| N. J. (EDIL) | | Set Set |
| - Number of FBI bit | | Reference to TS34.108 clause 6.10 Parameter |
| - Puncturing Limit | | Set Reference to TS34.108 clause 6.10 Parameter |
| - I diletaring Limit | | Set |
| CHOICE Mode | A1,A2,A3, | FDD |
| | A4,A5,A6, | |
| | A7, A8 | |
| - Downlink PDSCH information | | Not Present |
| Downlink information common for all radio links | A5, A6, | Not Present |
| Downlink information common for all radio links | A7, A8 A1,A2, A3 | |
| - Downlink DPCH info common for all RL | A1,A2, A3 | |
| - Timing indicator | | Maintain |
| - CFN-targetSFN frame offset | | Not Present |
| - Downlink DPCH power control information | | |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 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 Parameter |
| Tixed of Floxible Footieri | | Set |
| - TFCI existence | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - CHOICE SF | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - DPCH compressed mode info | | Not Present |
| TX Diversity mode SSDT information | | None Not Present |
| - SSDT Information - Default DPCH Offset Value | | Not Present |
| Downlink information common for all radio links | A4 | Not i lesent |
| - 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 _{Pilot-DPDCH} | | 0 Not Brocont |
| DL rate matching restriction information Spreading factor | | Not Present Reference to TS34.108 clause 6.10 Parameter |
| Opticacing factor | | 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 |
| DDCII commune and describe in (| | Set Not Propert |
| - DPCH compressed mode info | | Not Present |
| - TX Diversity mode | | None |

| Information Element | | Value/remark |
|---|------------|--|
| - SSDT information | | Not Present |
| - Default DPCH Offset Value | | Arbitrary set to value 0306688 by step of 512 |
| Downlink information for each radio link list | A1,A2,A3 | |
| -Downlink information for each radio link | | |
| - Choice mode | | FDD |
| - Primary CPICH info | | Dof to the Default patting in TC24 100 clause |
| - 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 |
| - Downlink DPCH info for each RL | | THE THEODIN |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | 0 chips |
| - Secondary CPICH info | | Not Present |
| - Secondary scrambling code | | |
| - channelisation code | | |
| - DL channelisation code | | |
| - Secondary scrambling code | | Reference to TS34.108 clause 6.10 Parameter |
| - Spreading factor | | 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 | |
| -Downlink information for each radio link | | 500 |
| - Choice mode - Primary CPICH info | | FDD |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| 1 milary columning social | | 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | | |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | Set to value : Default DPCH Offset Value mod |
| - Secondary CPICH info | | 38400 Not Present |
| - Secondary scrambling code | | Not i resent |
| - channelisation code | | |
| - DL channelisation code | | |
| - Secondary scrambling code | | 3 |
| - Spreading factor | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - Code number | | O No shange |
| Scrambling code change TPC combination index | | No change 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 | A5, A7, A8 | |
| - Choice mode | | FDD |
| - Primary CPICH info | | |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| - PDSCH with SHO DCH info | | 6.1 (FDD) Not Present |
| - PDSCH with SHO DCH into - PDSCH code mapping | | Not Present Not Present |
| - Downlink DPCH info for each RL | | Not resent |
| - 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" |
| 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 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER RELEASE message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER RELEASE message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. 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 | The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 |
|--------------------------|--|
| Message Type | |
| 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 |
| Measured results on RACH | To be checked against requirement if specified |

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 |
|-------------------------------|--|
| 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. |
| - SRNC identity | 0000 0000 0001B |
| - S-RNTI | 0000 0000 0000 0000 0001B |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | The presence of this IE depends on 2 factors: |
| | (a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) 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. |
| - 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 | The presence of this IE is dependent on IXIT statements in |
| | TS 34.123-2. If integrity protection is indicated to be active, |
| | this IE shall be present with the values of the sub IEs as |
| | stated below. Else, this IE and the sub-IEs shall be absent. |
| Message authentication code | Checked to see if it's identical to the value of XMAC-I |
| | calculated by the SS |
| - 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 |
|--|--|
| 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 |
| Signalling RB information to setup | (UM DCCH for RRC) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |
| - RLC info | LIM DI O |
| - CHOICE Uplink RLC mode | UM RLC |
| - Transmission RLC discard | Not Present |
| - CHOICE Downlink RLC mode | UM RLC |
| - RB mapping info | O DDM: Ortions |
| - 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 - CHOICE RLC size list | Configured |
| - MAC logical channel priority | Configured |
| - Downlink RLC logical channel info | |
| - Number of RLC logical channels | 1 |
| - Downlink transport channel type | l 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 | 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 | 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 | 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 | 128 |
| - Timer_RST | 500 |
| - Max_RST | 4 |

| Information Element | Value/remark |
|---|---|
| - Polling info | Value/Teillaik |
| - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 |
| - Poll_PDU | Not Present |
| - Poll_SDU | 1 |
| - Last transmission PDU poll | TRUE |
| - Last retransmission PDU poll - Poll_Window | TRUE 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 - Timer_EPC | 200 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 UL Transport channel identity | DCH 5 |
| - OE Transport channel identity - Logical channel identity | 5 |
| - 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 | 10 |
| - DL DSCH Transport channel identity - Logical channel identity | Not Present 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 - RLC size index | Explicit List According to TS34.108 clause 6.10.2.4.1.3 (standalone |
| - NEC Size illuex | 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 identity - Logical channel identity | Not Present 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 | 115 |
| - Transmission window size | 128 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | |
| - Timer_poll_prohibit | 200 |
| - Timer_poll - Poll_PDU | 200 Not present |
| - Poll_SDU | 1 |
| - Last transmission PDU poll | TRUE |
| - Last retransmission PDU poll | TRUE |
| - Poll_Window | 99 |
| - Timer_poll_periodic | Not Present |

| Information Florence | Walter frame orb. |
|---|---|
| Information Element - CHOICE Downlink RLC mode | Value/remark 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 | o DDM O 1 |
| - Information for each multiplexing option | 2 RBMuxOptions Not Present |
| RLC logical channel mapping indicator 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 | Not Present |
| DL DSCH Transport channel identity 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 | According to TS34.108 clause 6.10.2.4.1.3 (standalone |
| MAC la sical abayasal mujayitu | 13.6 kbps signalling radio bearer) |
| MAC logical channel priority 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 |
| - 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 | AWINEO |
| - 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 - Poll_PDU | 200 |
| - POII_PDU - POII_SDU | Not present |
| - 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 | 200 |
| - Timer_status_prohibit- Timer_EPC | 200 Not Present |
| - Missing PDU indicator | TRUE |
| - Timer_STATUS_periodic | Not Present |
| - RB mapping info | |
| · · · · · · · · · · · · · · · · · · · | |

| Information Element | Value/remark |
|---|---|
| - 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 Not Decomp |
| - RLC logical channel mapping indicator | Not Present |
| Number of RLC logical channels Uplink transport channel type | IRACH |
| - UL Transport channel identity | Not Present |
| - 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 | 5 |
| - 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 |
| UL Transport channel information for all transport | |
| channels | N. B. |
| - PRACH TFCS | Not Present |
| - CHOICE Mode - TFC subset | FDD Nor Present |
| - TFC subset - UL DCH TFCS | INOI Fresent |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | 140mai |
| - CHOICE TFCS representation | Addition |
| - TFCS complete reconfigure | |
| - CHOICE CTFC Size | 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 |
| 5 | kbps signalling radio bearer) |
| - Power offset information | Commented Coin Footons/The look TEO is not to Cinnelled |
| - CHOICE Gain Factors | Computed Gain Factors(The last TFC is set to Signalled |
| - Gain factor ßc | Gain Factors) 11 (below 64 kbps) |
| - Gain factor isc | 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 | |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - TFS | De disease dans a servada de |
| - CHOICE Transport channel type | Dedicated transport channels |
| Dynamic Transport format information RLC size | According to TS 24 109 alouge 6 10 2 4 1 2 (atendalons |
| - KLO 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) |
| - Transmission Time Interval | According to TS 34.108 clause 6.10.2.4.1.3 (standalone |
| Tanonicolon filmo mortar | 13.6 kbps signalling radio bearer) |
| | |

- SSDT information

Information Element Value/remark - Number of Transport blocks According to TS 34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - Type of channel coding 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) - Coding Rate kbps signalling radio bearer) - Rate matching attribute 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 - CRC size kbps signalling radio bearer) 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 - Downlink transport channel type DCH - DL Transport channel identity 10 - CHOICE DL parameters Same as UL - Uplink transport channel type DCH - UL TrCH Identity - DCH quality target - BLER Quality value -2.0 Frequency info Not Present Maximum allowed UL TX power Not Present 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 - 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 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - TFCI existence kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) - Number of FBI bit kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) - Puncturing Limit 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 - Downlink DPCH power control information - DPC mode 0 (single) - Power offset P Pilot-DPDCH - DL rate matching restriction information Not Present According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Spreading factor 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 - TFCI existence kbps signalling radio bearer) - CHOICE SF According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - DPCH compressed mode info Not Present - TX Diversity mode None

Not Present

| Information Element | Value/remark |
|--|--|
| - 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 | |
| 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 | 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 |
| Closed loop timing adjustment mode | Not Present |
| - SCCPCH information for FACH | Not Present |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)

| Information Element | Value/remark |
|---|--|
| 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 | Not Present |
| 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 | |
| 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 | |
| - 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 | 10 Not Broomt |
| - DL DSCH Transport channel identity | Not Present |
| Logical channel identity RLC logical channel mapping indicator | 1 Not Present |
| - RLC logical channel mapping indicator - Number of uplink RLC logical channels | 1 |
| - Number of uplink RLC logical channels - Uplink transport channel type | RACH |
| - UL Transport channel identity | Not Present |
| - OL Hansport channel identity | ואטנ רופסכוונ |

| Information Element | Value/remark |
|---|---|
| - 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 | 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 | (AM DCCH for DDC) |
| Signalling RB information to setup - RB identity | (AM DCCH for RRC) Not Present |
| - CHOICE RLC info type | RLC info |
| - CHOICE Uplink RLC mode | AM RLC |
| - Transmission RLC discard | 7 WINES |
| - 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 Last retransmission PDU poll | TRUE 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 | 2 PPMuyOntions |
| Information for each multiplexing option RLC logical channel mapping indicator | 2 RBMuxOptions 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 | |
| - Number of downlink RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | Not Present |
| DL DSCH Transport channel identity Logical channel identity | Not Present 2 |
| - 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 | 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) |
| - MAC logical channel priority | 3 |
| - Downlink RLC logical channel info | |
| - Number of downlink RLC logical channels | 1 FACH |
| Downlink transport channel type DL DCH Transport channel identity | Not Present |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity | Not Present |
| DE DOOR Hansport channel lucitury | THOU TOOOTIC |

| Information Element | Value/remark |
|---|---|
| - 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 | No Diseased |
| - SDU discard mode | No Discard |
| - MAX_DAT | 15 |
| - Transmission window size - Timer_RST | 128 500 |
| - Hittel_RST - 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 | 200 |
| - Timer_status_prohibit - 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 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 3 |
| - 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 6.10.2.4.1.3 (standalone |
| - MAC logical channel priority | 13.6 kbps signalling radio bearer) 4 |
| - MAC logical channel priority - Downlink RLC logical channel info | 7 |
| - 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 | 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 | No Discord |
| - SDU discard mode | No Discard |
| - MAX_DAT - Transmission window size | 128 |
| - Transmission window size - Timer_RST | 500 |
| 111101_101 | 000 |

| Information Element | Value/remark |
|--|---|
| - 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 uplink 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 downlink 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 uplink 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 | According to TS34.108 clause 6.10.2.4.1.3 (standalone |
| | 13.6 kbps signalling radio bearer) |
| - MAC logical channel priority | 5 |
| - 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 | 4 |
| UL Transport channel information for all transport | Not Present |
| channels | |
| 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 "CELL_FACH", need is MP to align with ASN.1" |
| - Added or Reconfigured UL TrCH information | OLLL_I AOIT, HEED IS WILL O AllYIT WILLT ASIN.T |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - TFS | Ŭ |

| Information Element | Value/remark |
|---|--|
| - CHOICE Transport channel type | Delicated transport channels |
| - Dynamic Transport format information | |
| - 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 | Not Present(Refer to SIB type 5) |
| transport channel | |
| 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 |
| | "CELL_FACH", need is MP to align with ASN.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 | 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 |
| 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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

| 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 an arbitrarily selected 32-bits integer |
| - 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 | 000000000000010B (UIA1) |
| - UIA1 | TRUE |
| - Spare | Spare 0 and Spare 2-15 = 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 | 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 |
| 0:1: | COMPLETE message. |
| - Ciphering activation time for DPCH | Not Present |
| Radio bearer downlink ciphering activation time 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. |
| Integrity protection mode command | Start |
| 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 | Not Checked |

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 | The presence of this IE is dependent on IXIT statements in |
| | TS 34.123-2. If integrity protection is indicated to be active, |
| | this IE shall be present with the values of the sub IEs as |
| | stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| - 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. |
| - 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 |
|--------------------------------|--|--|
| Message Type | A1, A2, A3, | |
| | A4, A5, A6 | |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | | The presence of this IE is dependent on IXIT |
| | | statements in TS 34.123-2. If integrity |
| | | protection is indicated to be active, this IE is |
| | | present with the values of the sub IEs as |
| | | stated below. 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. |
| - 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 |
| | A4, | |
| Activation time | A5, A6 | Not Present |
| New U-RNTI | | Not Present |
| New C-RNTI | A1, A2, A3, | Not Present |
| | A4 | |

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| Information Element | Condition | Value/remark |
|--|-------------|--|
| New C-RNTI | A5, A6 | '1010 1010 1010 1010' |
| New DSCH-RNTI | A1, A2, A3, | Not Present |
| | 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 |
| 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 | | FDD |
| - TFC subset | | Not Present |
| - UL DCH TFCS | | Name |
| CHOICE TFCI signalling TFCI Field 1 information | | Normal |
| - CHOICE TFCS representation | | Complete reconfiguration |
| - TFCS complete reconfigure information | | Complete reconliguration |
| - CHOICE CTFC Size | | Number of bits used must be enough to cover |
| - OF IOIOL OTT O DIZE | | 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 ComputedGain Factors) |
| - Gain factor βd | | 15 |
| | | (Not Present if the CHOICE Gain Factors is set |
| Defense TEO ID | | to ComputedGain Factors) |
| - Reference TFC ID | | 0 |
| - CHOICE mode | | FDD Not Present |
| - Power offset P p-m | A4 AC A5 | Not Present |
| Added or Reconfigured UL TrCH information | A1, A2, A5, | Not Present |
| | A6 | I |

| Information Element | Condition | Value/remark |
|--|-----------|--|
| Added or Reconfigured UL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for DTCH) |
| - 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 6.10 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 | | Deference to TC24 100 clause 6 10 December |
| | | 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 | | 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 |
| - CHOICE Logical Channel list | | All |
| - Semi-static Transport Format information | | Deference to TCO4 400 eleves C 40 Devemptor |
| - 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 |
| - CRC size | | Set 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 channels |
| - CHOICE Transport channel type - Dynamic Transport format information | | Dedicated transport channels |
| - RLC Size | | Reference to TS34.108 clause 6.10 Parameter |
| Number of TDs and TTLL ist | | Set (This IF is reported for TFI number) |
| Number of TBs and TTI List Transmission Time Interval | | (This IE is repeated for TFI number.) Not Present |
| - Transmission Time Interval - 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 TC24 400 eleves C 40 Devementor |
| - 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 |
| County Nato | | |

| Information Element | Condition | Value/remark |
|--|-------------|---|
| - 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 | A1,A2,A3, | FDD |
| | A4,A5,A6 | |
| - CPCH set ID | | Not Present |
| - Added or Reconfigured TrCH | | Not Present |
| information for DRAC list | | |
| DL Transport channel information common for all | A1, A2, | Not Present |
| transport channel | A5,A6 | |
| DL Transport channel information common for all | A3,A4 | |
| transport channel | | |
| - SCCPCH TFCS | | Not Present |
| - CHOICE mode | | FDD |
| - CHOICE DL parameters | | Explicit |
| - DL DCH TFCS | | Normal |
| - CHOICE TFCI Signalling - TFCI Field 1 Information | | Normal |
| - CHOICE TFCS representation | | Complete recenfiguration |
| - TFCS complete reconfigure | | Complete reconfiguration |
| - CHOICE CTEC Size | | Number of bits used must be enough to cover |
| - CHOICE CIFC Size | | 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 |
| 3.1. 0 | | Parameter Set |
| - Power offset information | | Not Present |
| Added or Reconfigured DL TrCH information | A1, A2, A5, | Not Present |
| J. 1. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | A6 | |

| Information Element | Condition | Value/remark |
|---|--|---|
| Added or Reconfigured DL TrCH information | A4 | 2 TrCHs(DCH for DCCH and DCH for 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 | | Not Present |
| - Transparent mode signalling info | | Not Present |
| - Downlink transport channel type | | DCH |
| - DL Transport channel identity | | 6 |
| - CHOICE DL parameters | | Explicit |
| - TFS | | · |
| - CHOICE Transport channel type | | Dedicated transport channel |
| 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.) |
| - 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 Parameter Set |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| DOLL ELL | | Set |
| - DCH quality target | | |
| BLER Quality value Transparent mode signalling info | | -2.0 Not Present |
| Added or Reconfigured DL TrCH information | A3 | Not Flesent |
| - 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 |
| - 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 |
| Openin statis T | | Set |
| - Semi-static Transport Format information - Transmission time interval | | Deference to TCO4 400 slaves 0 40 Dame |
| - i ransmission time interval | | Reference to TS34.108 clause 6.10 Parameter |
| - Type of channel coding | | Set Reference to TS34.108 clause 6.10 Parameter |
| 1,750 or original odding | | Set |
| - Coding Rate | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - Rate matching attribute | | Reference to TS34.108 clause 6.10 Parameter |
| - CRC size | | Set Reference to TS34.108 clause 6.10 Parameter |
| - 000 2156 | | Set |
| - DCH quality target | | |
| - BLER Quality value | | -2.0 |
| - Transparent mode signalling info | <u> </u> | Not Present |
| Frequency info | A1,A2,A3, | |
| | A4,A5,A6 | |
| - UARFCN uplink (Nu) | | Reference to clause 5.1 Test frequencies |

| Information Element | Condition | Value/remark |
|--|-------------|---|
| - UARFCN downlink (Nd) | | Reference to clause 5.1 Test frequencies |
| Maximum allowed UL TX power | A1,A2,A3, | 33dBm |
| OUDIOE / | A4,A5,A6 | |
| CHOICE channel requirement | A5, A6 | Not Present |
| CHOICE channel requirement | A1, A2, A3, | Uplink DPCH info |
| Unlink DDCH newer central info | A4 | |
| -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 |
| - 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 |
| OLIOLOG Marila | A4 A0 A0 | Set |
| CHOICE Mode | A1,A2,A3, | FDD |
| Described DDCCH information | A4,A5,A6 | Not Droppet |
| - Downlink PDSCH information Downlink information common for all radio links | ۸۶۸۶ | Not Present Not Present |
| | A5, A6 | Not Present |
| Downlink information common for all radio links - Downlink DPCH info common for all RL | A1, A2, A3 | |
| - Timing indicator | | Maintain |
| - CFN-targetSFN frame offset | | Not Present |
| - Downlink DPCH power control information | | Not i resent |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 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 Parameter |
| | | Set |
| - TFCI existence | | Reference to TS34.108 clause 6.10 Parameter |
| 0110105.05 | | Set . Tool 1 100 L |
| - CHOICE SF | | Reference to TS34.108 clause 6.10 Parameter |
| DDCII communicated model info | | Set Net Present |
| - DPCH compressed mode info | | Not Present |
| - TX Diversity mode - SSDT information | | None Not Present |
| - Default DPCH Offset Value | | Not Present |
| Downlink information common for all radio links | A4 | NOTE 1636111 |
| - Downlink DPCH info common for all RL | ' \ ¬ | |
| - Timing indicator | | Initialise |
| - CFN-targetSFN frame offset | | Not Present |
| - Downlink DPCH power control information | | |
| - DPC mode | | 0 (single) |
| - CHOICE mode | | FDD |
| - Power offset P _{Pilot-DPDCH} | | 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 Parameter |
| - TFCI existence | | Set Reference to TS34.108 clause 6.10 Parameter Set |
| - CHOICE SF | | Reference to TS34.108 clause 6.10 Parameter Set |
| DPCH compressed mode infoTX Diversity mode | | Not Present None |

| Information Element | Condition | Value/remark |
|--|------------|--|
| - SSDT information | | Not Present |
| - Default DPCH Offset Value | | Arbitrary set to value 0306688 by step of 512 |
| Downlink information for each radio link list | A1, A2, A3 | |
| Downlink information for each radio links CHOICE mode | | FDD |
| - CHOICE mode - Primary CPICH info | | FUU |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| 1 mary columning code | | 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | | |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | 0 chips |
| - Power offset P _{Pilot-DPDCH} - Secondary CPICH info | | 0 Not Present |
| - DL channelisation code | | Not i lesent |
| - Secondary scrambling code | | 4 |
| - Spreading factor | | Reference to TS34.108 clause 6.10 Parameter |
| | | Set |
| - Code number | | 0 |
| - Scrambling code change | | No change |
| - TPC combination index | | 0 Not Present |
| - SSDT Cell Identity - Closed loop timing adjustment mode | | Not Present |
| - SCCPCH information for FACH | | Not Present |
| Downlink information for each radio link list | A4 | 140t Frederit |
| - Downlink information for each radio links | ' ' ' | |
| - CHOICE mode | | FDD |
| - Primary CPICH info | | |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| PROOFF WAS ONE POLICY | | 6.1 (FDD) |
| - PDSCH with SHO DCH info - PDSCH code mapping | | Not Present Not Present |
| - Downlink DPCH info for each RL | | Not Flesent |
| - Primary CPICH usage for channel estimation | | Primary CPICH may be used |
| - DPCH frame offset | | Set to value: Default DPCH Offset Value mod |
| | | 38400 |
| - Power offset P _{Pilot-DPDCH} | | 0 |
| - Secondary CPICH info | | Not Present |
| - DL channelisation code | | |
| - Secondary scrambling code | | Reference to TS34.108 clause 6.10 Parameter |
| - Spreading factor | | 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 | 1 0 5 | Not Present |
| - Downlink information for each radio link | A5 | EDD |
| - Choice mode - Primary CPICH info | | FDD |
| - Primary scrambling code | | Ref. to the Default setting in TS34.108 clause |
| i iiii.a. j ssiaii.aiii g ssas | | 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | | Not present |
| - SCCPCH information for FACH | 100 | Not Present |
| - Downlink information for each radio link | A6 | FDD |
| - Choice mode - Primary CPICH info | | |
| - Primary scrambling code | | Different from the Default setting in TS34.108 |
| . Timary colambing code | | clause 6.1 (FDD) |
| - PDSCH with SHO DCH info | | Not Present |
| - PDSCH code mapping | | Not Present |
| - Downlink DPCH info for each RL | | Not present |
| - SCCPCH information for FACH | | 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The UE shall include this IE if the following two conditions are fulfilled: (a) The TRANSPORT CHANNEL RECONFIGURATION message did not contain the IE "Ciphering activation time for DPCH" and (b) The TRANSPORT CHANNEL RECONFIGURATION message established the first RB(s) mapped to RLC-TM for a CN domain or released the last 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 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 | The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. 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. |
| 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 |
| Allowed Transport format combination | 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. 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. |
| RRC Message sequence number Capability update requirement | SS provides the value of this IE, 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 |
| 10- | 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. 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. |
| - RRC Message sequence 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE shall be present with the values of the sub |
| | IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| - 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. |
| - 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. 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. |
| - 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 | See the test content |
| Downlink counter synchronisation info | Not Present |

Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. 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. |
| - 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 | 200 |
| - T316 | 50 seconds |
| - T317 | 1800 seconds |
| CN information info | 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM, (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent. |
| Radio bearer uplink ciphering activation time info | Not checked |
| Uplink counter synchronisation info | Not checked |

9.1.2 Default Message Contents for Signalling (TDD)

Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element | Value/remark |
|-------------------------------|--|
| Message Type | |
| RRC transaction identifier | 0 |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. 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. |
| - 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 |
|--------------------------------|--|
| Message Type | |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 |
| 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 |
|--|--|
| Message Type | 1 41447, 1 111411 |
| RRC transaction identifier | 0 |
| Integrity check info | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. Else, this IE and the sub-IEs are omitted. |
| - message authentication code | SS calculates the value of MAC-I for this message and |
| DDC massage as guarante number | writes to this IE. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter. |
| Integrity protection mode info Ciphering mode info | Not Present The presence of this IE is dependent on IVIT statements |
| Ciprieting mode into | 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 |
| RRC State indicator | CELL_DCH |
| UTRAN DRX cycle length coefficient | Not Present |
| CN information info URA identity | Not Present Not Present |
| Signalling RB information to setup list | Not Present |
| RAB information for setup list | THOU TOSCIIL |
| - RAB information for setup | |
| - RAB info | |
| - RAB identity | 0000 0001B |
| - CN domain 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 - CHOICE Uplink RLC mode | RLC info 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 | 1 Not Present |
| Logical channel identity 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 | 6 |
| - DL DSCH Transport channel identity | Not Present |
| Logical channel identity | 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 |

| Information Element | Value/remark |
|--|---|
| - CHOICE Downlink RLC mode | TM RLC |
| - Segmentation indication | FALSE |
| - RB mapping info | TALOE |
| - 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 - CHOICE RLC size list | Not Present |
| - MAC logical channel priority | Configured 1 |
| - Downlink RLC logical channel info | |
| Number of downlink RLC logical channels | 1 |
| - Downlink transport channel type | DCH |
| - DL 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 TM RLC |
| - CHOICE Uplink RLC mode - 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 Not Present |
| - Logical channel identity - CHOICE RLC size list | Not Present 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 | 8 |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity RB information to be affected list | Not Present |
| | Not Present |
| Downlink counter synchronisation info UL Transport channel information for all transport | Not Present |
| channels | |
| - PRACH TFCS | Not Present |
| - CHOICE mode | TDD |
| -Individual UL CCTrCH information | |
| - TFCS ID | (This IE is repeated for TFC number.) |
| Allowed Transport Format combination | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to |
| DDACH TECS | TS34.108 clause 6 Parameter Set.) |
| - PRACH TFCS - CHOICE TFCI signalling | (This IE is repeated for TFC number.) Normal |
| - TFCI Field 1 information | NOTITIAL |
| - 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 TrCH information list | Not Present |
| Added or Reconfigured TrCH information list | 3 DCHs |
| - Added or Reconfigured UL TrCH information | DCH |
| Uplink transport channel type UL Transport channel identity | DCH 1 |
| - TFS | ' |
| - CHOICE Transport channel type | Dedicated transport channels |
| STISTOL Transport Grainfor type | Dodioatoa tranoport oriannolo |

- DL Transport channel identity

Information Element Value/remark - 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 - 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 - 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 Reference to TS34.108 clause 6.10 Parameter Set - Number of Transport blocks (This IE is repeated for TFI number.) - CHOICE Logical Channel list - 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 Reference to TS34.108 clause 6.10 Parameter Set - Rate matching attribute - CRC size Reference to TS34.108 clause 6.10 Parameter Set - Uplink transport channel type DCH - UL Transport channel identity 3 - 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 Reference to TS34.108 clause 6.10 Parameter Set - Number of Transport blocks (This IE is repeated for TFI number.) - CHOICE Logical Channel list - 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 Reference to TS34.108 clause 6.10 Parameter Set - CRC size CHOICE mode TDD (no data) DL Transport channel information common for all 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 - Downlink transport channel type DCH - DL Transport channel identity - CHOICE DL parameters Same as UL - Uplink transport channel type DCH - UL TrCH identity 1 - DCH quality target - BLER Quality value -6.3 - Transparent mode signalling info Not Present - Downlink transport channel type DCH

| Information Element | Value/remark |
|--|---|
| - CHOICE DL parameters | Same as UL |
| - Uplink transport channel type | DCH |
| - UL TrCH identity | 2 |
| DCH quality target BLER Quality value | Not Present |
| Transparent mode signalling info | Not Present |
| - Downlink transport channel type | DCH |
| - DL Transport channel identity | 8 |
| - CHOICE DL parameters | Same as UL |
| - Uplink transport channel type | DCH |
| - UL TrCH identity | 3 |
| - DCH quality target | |
| - BLER Quality value | Not Present |
| - Transparent mode signalling info | Not Present |
| Frequency info | D () 54T () |
| - UARFON Nt) | Reference to clause 5.1 Test frequencies |
| Maximum allowed UL TX power CHOICE channel requirement | 30dBm 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 | |
| - CHOICE mode | TDD |
| - Uplink Timing Advance Control | Not Present |
| - UL CCTrCH List | |
| - TFCS Id - Time info | 1 |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 |
| - Duration | infinite |
| - Common timeslot info | |
| - 2 nd 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. |
| Denetition Deviced | clause 6 Parameter set. |
| Repetition PeriodRepetition Length | clause 6 Parameter set. |
| - Uplink DPCH timeslots and code | clause of arameter 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 | |
| - CHOICE TDD option | 3.84 Mcps |
| - Midamble allocation mode | Default |
| - Midamble configuration burst type 1 | 16 |
| and 3 - CHOICE TDD option | (no data) |
| - First timeslot channelisation codes | Repeated (1,2) for each channelisation code assigned in |
| - i iist timesiot chamielisation codes | 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 number of |
| | resources specified in TS34.108 section 6 and the |
| Downlink information common for all radio links | number of slots in which they are being assigned. |
| - Downlink DPCH info common for all RL | |
| - Downlink DPCH into continion for all RE - Timing indicator | Maintain |
| - CFN-targetSFN frame offset | Not Present |
| - Downlink DPCH power control information | |
| - CHOICE mode | TDD |
| - TPC step size | 1 dB |
| - CHOICE mode | TDD |
| | |

| Information Element | Value/remark |
|---|--|
| - 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 | 100 |
| - CHOICE TDD option | 3.84 Mcps |
| - CHOICE SyncCase | Sync Case 1 |
| - Timeslot | PCCPCH timeslot |
| - Cell parameters ID | 0 |
| - SCTD indicator | O |
| - Downlink DPCH info for each RL | |
| - CHOICE mode | TDD |
| - DL CCTrCH List | |
| - TFCS ID | 1 |
| | |
| - Time info | (256 - CEN (CEN mod 8 + 9))mod 256 |
| - Activation time | (256+CFN-(CFN mod 8 + 8))mod 256 |
| - Duration | infinite |
| - Common timeslot info | D-f t- 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 |
| - Downlink DPCH timeslots and codes | |
| - Individual timeslot info | |
| - Timeslot number | The number of a downlink timeslot that has |
| | unassigned codes. |
| - TFCI existence | TRUE |
| Midamble shift and burst type | |
| - 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 | |
| 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. |
| - Bitmap | Bitmap of the codes that are being assigned in the slot. |
| - CHOICE more timeslots | The presence of this IE depends upon whether |
| orioroz moro umodioto | 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 |
| -0001 OFFINIONNAUON TOFF ACT | HOLI TOSEIIL |

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (1.28 Mcps TDD option)

| Information Element | Value/remark |
|---|--|
| Message Type | raidonomain |
| RRC transaction identifier | 0 |
| Integrity check info | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| mossage authoritisation code | stated below. 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. |
| - 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. |
| Oinh aring grands are grands | Else, this IE is omitted. |
| - Ciphering mode command | Start/restart |
| Ciphering algorithm Ciphering activation time for DPCH | Use one of the supported ciphering algorithms (256+CFN-(CFN MOD 8 + 8))MOD 256 |
| - Radio bearer downlink ciphering activation time | Not Present |
| info | THE TOOM |
| 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 Not Present |
| UTRAN DRX cycle length coefficient CN information info | Not Present |
| URA identity | Not Present |
| Signalling RB information to setup list | Not Present |
| RAB information for setup list | |
| - RAB information for setup | |
| - RAB info | |
| - RAB identity | 0000 0001B |
| - CN domain identity - NAS Synchronization Indicator | CS domain 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 - Transmission RLC discard | TM RLC |
| - Transmission REC discard - Segmentation indication | Not Present 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 DCH |
| Uplink transport channel type UL Transport channel identity | DCH 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 |
| - Logical channel identity | 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 |

| Information Element | Value/remark |
|--|--|
| - CHOICE Downlink RLC mode | TM RLC |
| - Segmentation indication | FALSE |
| - RB mapping info | TALOE |
| - 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 | 1 |
| - Downlink RLC logical channel info | 4 |
| Number of downlink RLC logical channels Downlink transport channel type | 1 DCH |
| - DL 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 | Not Dropont |
| RLC logical channel mapping indicator Number of uplink RLC logical channels | Not Present 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 | 1 |
| - 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 Downlink counter synchronisation info | Not Present Not Present |
| UL Transport channel information for all transport | Not Fresent |
| channels | |
| - PRACH TFCS | Not Present |
| - CHOICE mode | TDD |
| -Individual UL CCTrCH information | |
| - TFCS ID | (This IE is repeated for TFC number.) |
| 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 |
| - TFCI Field 1 information | |
| TFCS complete reconfigure information CHOICE TFCS Size | Number of used hits must be arough to sover |
| - CHOICE TECS 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 | |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 1 |
| - TFS | De diseate ditrementaria hannela |
| - CHOICE Transport channel type | Dedicated transport channels |

- DL Transport channel identity

Information Element Value/remark - Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6 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 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6 Parameter Set - Type of channel coding Reference to TS34.108 clause 6 Parameter Set - Coding Rate Reference to TS34.108 clause 6 Parameter Set - Rate matching attribute Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set - CRC size - Uplink transport channel type DCH - UL Transport channel identity - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6 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 Parameter Set - Transmission Time Interval Reference to TS34.108 clause 6 Parameter Set - Number of Transport blocks (This IE is repeated for TFI number.) - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6 Parameter Set - Type of channel coding Reference to TS34.108 clause 6 Parameter Set - Coding Rate Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set - Rate matching attribute - CRC size Reference to TS34.108 clause 6 Parameter Set - Uplink transport channel type DCH - UL Transport channel identity 3 - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6 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 Parameter Set - Transmission Time Interval Reference to TS34.108 clause 6 Parameter Set - Number of Transport blocks (This IE is repeated for TFI number.) - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6 Parameter Set - Type of channel coding Reference to TS34.108 clause 6 Parameter Set - Coding Rate Reference to TS34.108 clause 6 Parameter Set - Rate matching attribute Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set - CRC size CHOICE mode TDD (no data) DL Transport channel information common for all 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 - Downlink transport channel type DCH - DL Transport channel identity - CHOICE DL parameters Same as UL - Uplink transport channel type DCH - UL TrCH identity 1 - DCH quality target - BLER Quality value -6.3 - Transparent mode signalling info Not Present - Downlink transport channel type DCH

| - CHOICE DL parameters - Uplink transport channel type - UL TCH identity - CHOICE DL parameters - Uplink transport channel type - UL TCH identity - CHOICE DL parameters - Uplink transport channel type - UL TCH identity - CHOICE DL parameters - Uplink transport channel type - UL TCH identity - CHOICE DL parameters - Uplink transport channel type - UL TCH identity - CHOICE DL parameters - Uplink transport channel type - UL TCH identity - CHOICE DL parameters - Uplink transport thannel type - UL TCH identity - CHOICE DL parameters - Uplink transport thannel type - UL TCH identity - CHOICE DL parameters - Uplink transport thannel type - UL TCH identity - CHOICE DL parameters - Uplink transport thannel type - UL TCH identity - CHOICE Inde - UL TCH identity - CHOICE mode - UL CHOICE TOD option - TPC step size - Primary CCPCH TX Power - CHOICE mode - Uplink Timing Advance Control - UL CCTCH List - TFCS Id - Time info - Activation time - Duration - Common timesiot info - 2" interleaving mode - TFCI coding - Puncturing Limit - Repetition Length - Uplink DPCH imesiots and code - First individual timeslot info - Repetition Length - Uplink DPCH sidence - Midamble solfia and burst type - CHOICE TDO potion - Midamble solfia and burst type - CHOICE TDO potion - Midamble solfia and burst type - CHOICE TDO potion - Midamble solfia and burst type - CHOICE TDO potion - Midamble solfia and burst type - CHOICE TDO potion - Midamble solfia and burst type - CHOICE TDO potion - Midamble solfia and burst type - CHOICE TDO potion - Modulation - Midamble solfia and burst type - CHOICE TDO potion - Modulation - Midamble solfia and burst type - CHOICE TDO potion - Modulation - Midamble solfia and burst type - CHOICE TDO potion - Modulation - Midamble solfia and burst type - CHOICE TDO potion - Modulation - Mod | Information Floresus | Value/value out |
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| - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - CHOICE more timeslots - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 - Reference to TS34.108 clause 6 Parameter set. 16 CPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. The presence of t | - Common timeslot info | |
| - Puncturing Limit - Repetition Period - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - CHOICE more timeslots - CHOICE more timeslots Reference to TS34.108 clause 6 Parameter set. TRUE TRUE 1.28 Mcps Default 16 (PSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD CHOICE Mode Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information Maintain Not Present | | |
| - Repetition Period - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - Repetition Length - Clause 6 Parameter set. clause 6 Parameter set. clause 6 Parameter set. - TRUE - 1.28 Mcps - Default - 16 - CPSK - 1 - CPSK - 1 - CPSK - 1 - CPN-TargetSFN frame offset - Downlink DPCH power control information - CPN-TargetSFN frame offset - Downlink DPCH power control information | | |
| - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 - Timeslot number - Timeslot number - Time number of an uplink timeslot that has unassigned codes. - TRUE - Time number of an uplink timeslot that has unassigned codes. - TRUE - 1.28 Mcps Default - 16 - (PSK - QPSK - (I/2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set 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 TDD - Midamble configuration - (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set 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 TDD - Midamble configuration - (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matchi | - Puncturing Limit | Reference to 1534. Too clause o Parameter set. |
| - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TTCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode Downlink DPCH info common for all radio links - Downlink DPCH power control information - CHOICE more timeslots - CEN-targetSFN frame offset - Downlink DPCH power control information - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode Downlink DPCH power control information - CEN-targetSFN frame offset - Downlink DPCH power control information - Timeslot number of an uplink timeslot that has unassigned codes. - TRUE - Timeslot channelisation type - L28 Mcps - Default - 16 - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSK - CHOICE TDD option - Midamble configuration - CPSC - CHOICE TDD option - Midamble configuration - CPSC - CHOICE TDD option - Midamble configuration - CPSC - CHOICE TDD option - Midamble configuration - CPSC - CHOICE TDD option - Midamble configuration - CPSC - CHOICE TDD option - Midamble configuration - CPSC - CHOICE TDD option - M | - Repetition Period | clause 6 Parameter set. |
| - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 - TRUE - Time number of an uplink timeslot that has unassigned codes. TRUE - 1.28 Mcps Default - 16 - (PSK - (PSK - (I/SP) where i denotes an unassigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set (I/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set 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. TDD Maintain Not Present | | clause 6 Parameter set. |
| - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 - TRUE 1.28 Mcps Default 16 QPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD CHOICE Mode Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information | | |
| - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 - TRUE 1.28 Mcps Default 16 QPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD CHOICE Mode Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information | First individual timeslot info | |
| - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - CHOICE more timeslots CHOICE Mode 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 - TRUE 1.28 Mcps Default 16 - CPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | unassigned codes. |
| - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - Choice more timeslots - CHOICE more timeslots CHOICE Mode 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 - Midamble allocation mode 1.28 Mcps Default 16 QPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | |
| - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Choice more timeslots - CHOICE more timeslots - CHOICE Mode 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 - Midamble allocation mode 1.28 Mcps Default 16 QPSK - QPSK - QPSK - QPSK - QPSK - QPSK - (i/SF) where idenotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set (i/SF) where idenotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set 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. TDD - MONUMENTAL TOWN AND ADD ADD ADD ADD ADD ADD ADD ADD AD | | TRUE |
| - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE Mode 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 - CHOICE TDD - CHOICE Mode - Maintain Not Present - Mesult 16 - QPSK - Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 - Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 - Parameter Set. 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. TDD - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information | | 4.00 Maria |
| - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE Mode 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 - CHOICE TDD option QPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | · · |
| - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE Mode 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 - CHOICE TDD option QPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | |
| - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - CHOICE more timeslots CHOICE Mode 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 - WPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | 10 |
| - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - Channelisation code - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE Mode Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - SS-TPC Symbols Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | QPSK |
| - 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. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. CHOICE Mode 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 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | |
| - Channelisation code - Channelisation code - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 - Channelisation code (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | Repeated (1,2) for each channelisation code assigned in |
| - Channelisation code - Cholce more timeslots - CHOICE more timeslots - CHOICE more timeslots - CHOICE Mode 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 (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD Maintain Not Present | | the slot to meet the needs of TS34.108 clause 6 |
| ratching the SF specified in TS34.108 clause 6 Parameter Set. 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. TDD CHOICE Mode 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 matching the SF specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the number of resources | | |
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| - 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. TDD TDD TDD Maintain - CFN-targetSFN frame offset - Downlink DPCH power control information | | |
| resources specified in TS34.108 section 6 and the number of slots in which they are being assigned. TDD TDD TDD TDD Maintain CFN-targetSFN frame offset Downlink DPCH power control information | CLICICE many times late | |
| CHOICE Mode 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 | - CHOICE more timeslots | |
| CHOICE Mode 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 TDD Maintain Not Present | | |
| 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 Maintain Not Present | CHOICE Mode | · · · · · · · · · · · · · · · · · · · |
| - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information Maintain Not Present | | |
| - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information Maintain Not Present | | |
| - CFN-targetSFN frame offset - Downlink DPCH power control information | | Maintain |
| - Downlink DPCH power control information | | |
| - CHOICE mode TDD | Downlink DPCH power control information | |
| | - CHOICE mode | TDD |

| Information Element | Value/remark |
|---|--|
| - TPC step size | 1 dB |
| | TDD |
| | 1.28 Mcps |
| | TRUE |
| | 0 |
| - Downlink information for each radio link | |
| | TDD |
| - Primary CCPCH info | |
| | 1.28 Mcps |
| | TRUE |
| | 0 |
| | FALSE |
| - Downlink DPCH info for each RL | TALOL |
| | TDD |
| - DL CCTrCH List | 100 |
| | 1 |
| - Time info | |
| | (256+CFN-(CFN mod 8 + 8))mod 256 |
| | infinite |
| - Common timeslot info | minute |
| | Reference to TS34.108 |
| 9 | TRUE |
| 3 | _ |
| | Reference to TS34.108 clause 6 Parameter set |
| | · |
| Repetition length Downlink DPCH timeslots and codes | Empty |
| | |
| - Individual timeslot info | The state of the state of |
| | The number of a downlink timeslot that has |
| | unassigned codes. |
| | TRUE |
| - Midamble shift and burst type | 4.00 Mars - |
| · | 1.28 Mcps |
| | Default |
| | 16 |
| | 1.28 Mcps |
| | QPSK |
| oo ii o oyiiibala | 1 |
| First timeslot channelisation codes | |
| | (i/SF) where i is the lowest numbered code |
| | that is being assigned and SF is specified in |
| | TS34.108 clause 6 Parameter Set |
| | (j/SF) where j is the highest numbered code |
| | that is being assigned in the slot. |
| | Bitmap of the codes that are 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 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 |
|--|--|
| Message Type | |
| RRC transaction identifier | 0 |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. 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. |
| - 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 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 UNTAN DRX cycle length coefficient ON information info UNA identity Signalling RB information to setup RAB information for setup - RAB information for setup - RAB information info UNA Soxphorhorization Indicator - Re-establishment timer - RB information to setup - RB identity - CN domain identity - RB i | Information Element | Value/remark |
|--|---|-------------------------|
| IUTRAN DRX cycle length coefficient URA identity URA identity Signalling RB information to setup RAB information for setup - RAB information for setup - RAB information indicator - RAB identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - | | |
| CN information info URA identity Signalling RB information to setup RAB information for setup - RAB information for setup - RAB information for setup - RAB information in Setup - RAB information in Setup - RAB information in Setup - RB identity - CN domain identity - RB information in Setup - RB identity - RB information in Setup - RB identity - RB identity - RB identity - RB identity - PDC Pindo - CHOICE RLC info type - CHOICE RLC info type - CHOICE BLIC mode - Transmission RLC discard - SDU discard mode - MAX DAT - Timer_MRW - MaxMRW - MaxMRW - Transmission window size - Timer_RST - Polling info - Timer_poll prohibit - Timer_poll prohibit - Timer_poll prohibit - Imer_poll prohibit - Imer_poll prohibit - Imer_poll periodic - CHOICE Downlink RLC mode - Imer_spl Poll indicator - Timer_spl Poll | The second management | |
| URA identity Sipaniling RB information to setup RAB information for setup - RAB information - RAB identity - NAS Synchronization Indicator - Re- establishment timer - RB information to setup - RB information for setup - RB information to setup - RB information for setup - RB inform | | |
| Signalling RB information to setup - RAB information for setup - RAB information for setup - RAB information for setup - RAB information in setup - RAB information in setup - RAB information in setup - RAB information to setup - RB information for setup - CHOICE Uplink RLC mode - SDU discard mode - MAX_DAT - Timer_RMRW - MaxMRW - MaxMRW - MaxMRW - MaxMRW - Information for setup - Poll SDU - Last transmission PDU poll - Poll SDU - Last transmission PDU poll - Last transmission PDU poll - Poll Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status into - Timer_status_prohibut - Timer_status_prohibut - RB mapping into - Information for each multiplexing option - Information for each multiplexi | | |
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| - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - 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 - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - Identity - Street - MAC logical channel priority - Downlink RLC logical channels - Identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Identity - Not Present - Not Pre | | 1 |
| - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical 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 Not Present Not Present - Not Present - RACH Not Present - RACH Not Present - Explicit List - Explicit List - Reference to TS34.108 clause 6 Parameter Set - 6 - 10 Parameter Set - 6 - 11 Parameter Set - 6 - 12 Parameter Set - 6 - 13 Parameter Set - 6 - 14 Parameter Set - 6 - 15 Parameter Set - 6 - 17 Parameter Set - 6 - 18 Parameter Set - 6 - 19 Parameter Set - 6 - 10 Parameter Set - 6 - 11 Parameter Set - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 | - Uplink transport channel type | DCH |
| - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - Downlink transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical 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 Not Present Not Present - Not Present - RACH Not Present - RACH Not Present - Explicit List - Explicit List - Reference to TS34.108 clause 6 Parameter Set - 6 - 1 | - UL Transport channel identity | 1 |
| - 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 - 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 1 CHOICE RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels | - Logical channel identity | |
| - 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 - 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 1 CHOICE RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels | | 1 . • |
| - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 1 DCH 6 Not Present Not Present 1 RACH Not Present 7 Explicit List 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 Number of downlink RLC logical channels | | 1 |
| - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 channels - Number of downlink RLC logical channels DCH 6 Not Present Not Present 1 RACH Not Present 7 Explicit List 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 - Not Present Not Present Not Present - RACH Not Present - RACH Not Present - RACH Not Present - RACH Not Present - Not Present - RACH Not Present - Not Present - RACH Not Present - Not Present - RACH Not Present - Not Prese | | |
| - DL DSCH Transport channel identity - Logical channel identity - 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 channels - Number of downlink RLC logical channels Not Present Not Present Not Present Not Present 1 RACH Not Present 1 | | |
| - Logical channel identity - 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 channels - Number of downlink RLC logical channels Not Present Not Present RACH Not Present 1 | | |
| - 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 channels - Number of downlink RLC logical channels Not Present 1 RACH Not Present 7 Explicit List 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - 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 1 RACH Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - 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 channels - Number of downlink RLC logical channels - UL Transport channel type - Not Present - Explicit List - Explicit List - Reference to TS34.108 clause 6 Parameter Set - 6 - Number of downlink RLC logical channels - 1 | | |
| - 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 Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - 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 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - CHOICE RLC size list - Reference to TS34.108 clause 6 Parameter Set 6 - 1 | | |
| - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels Reference to TS34.108 clause 6 Parameter Set 6 1 | | · |
| - MAC logical channel priority 6 - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 | | |
| - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 | | |
| - Number of downlink RLC logical channels 1 | | |
| Describes transport shows all time | Number of downlink RLC logical channels | 1 |
| | - Downlink transport channel type | FACH |
| - DL DCH Transport channel identity Not Present | - DL DCH Transport channel identity | Not Present |

| Information Element | Value/remark |
|---|--|
| - DL DSCH Transport channel identity | Not Present |
| Logical channel identity RB information to be affected list | 7 Not Present |
| Downlink counter synchronisation info | Not Present |
| UL Transport channel information for all transport | Not i resem |
| channels | |
| - PRACH TFCS | Not Present |
| - CHOICE mode | TDD |
| -Individual UL CCTrCH information | |
| - TFCS ID | (This IE is repeated for TFC number.) |
| Allowed Transport Format combination | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to |
| DD A OU TEOO | 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 |
| 0110102 11 00 0120 | 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 |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | Dedicated 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 |
| - Semi-static Transport Format information | D-f t- T004 400 -l 0 40 D 0-4 |
| Transmission time interval Type of channel coding | Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set |
| - Type of charmer coding - 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 | TDD (no data) |
| 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 | FALSE |
| - CHOICE DL parameters | Independent |
| - DL DCH TFCS | (This IE is repeated for TFC number.) |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS complete reconfigure | |
| information | |
| - CHOICE CTFC Size | Refer to TS34.108 clause 6. |

| Information Element | Value/remark |
|--|---|
| - CTFC information | Refer to TS34.108 clause 6. |
| Added or Reconfigured TrCH information list | |
| - Added or Reconfigured DL TrCH information | |
| - 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 | (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 |
| - 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 |
| - DCH quality target | |
| - BLER Quality value | -6.3 |
| - Transparent mode signalling info | Not Present |
| Frequency info | |
| -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 |
| - CHOICE TDD option | 3.84 Mcps |
| Individual timeslot interference | |
| info | |
| - Individual timeslot interference | |
| - DPCH Constant Value | Values are used for open loop power control, |
| Di ori conclaire valuo | section 8 in TS 25.331 |
| - CHOICE mode | |
| - UNDIUE IIIOGE | TDD |

| Information Element | Value/remark |
|--|---|
| Information Element - Uplink Timing Advance Control | Not Present |
| - UL CCTrCH List | Not Flesent |
| - TFCS Id | 1 |
| - Time info | 1 |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 |
| - Duration | Infinite |
| - Common timeslot info | ii iii iite |
| - 2 _{nd} 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 | Troision to 100 1.100 diadeo 6.101 diameter out |
| - Timeslot number | The number of an uplink timeslot that has |
| | unassigned codes. |
| - TFCI existence | TRUE |
| - Midamble shift and burst type | |
| - 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 | |
| - 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 |
| | number of resources specified in TS34.108 |
| | section 6 and the number of slots in which they |
| | are being assigned. |
| 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 | 0 (-i |
| - DPC mode | 0 (single) |
| - CHOICE mode | TDD |
| - CHOICE TDD option - Default DPCH Offset Value | 3.84 Mcps (no data) Not Present |
| Downlink information for each radio link list | Not Flesent |
| - Downlink information for each radio link | |
| - Choice mode | TDD |
| - Primary CCPCH info | 100 |
| - 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 _{nd} interleaving mode | Reference to TS34.108 |
| - TFCI coding | TRUE |
| - Puncturing limit | Reference to TS34.108 clause 6 Parameter set |
| - Repetition period | Toronto |
| - Repetition length | Empty |
| Downlink DPCH timeslots and codes Individual timeslot info | |
| - Individual timeslot into - Timeslot number | The number of a downlink timeslot that has |
| - Hillesiot Hullibel | unassigned codes. |
| | anaosignoa oodos. |

| Information Element | Value/remark |
|---|--|
| - TFCI existence | TRUE |
| Midamble shift and burst type | |
| - 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 | |
| - 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 |
| - 1. | 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 IT depends upon whether |
| - CHOICE more timesions | 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 |
| | nave been assigned in the first timesiot |
| - UL CCTrCH TPC List | Not Present |
| 02 00 11011 11 0 2101 | 11011100111 |
| -SCCPCH information for FACH | Not Present |
| | |

Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS) (1.28 Mcps TDD option)

| Information Element | Value/remark |
|--|--|
| Message Type | |
| RRC transaction identifier | |
| Integrity check info | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. 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. |
| 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 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 UNTAN DRX cycle length coefficient ON information info UNA identity Signalling RB information to setup RAB information for setup - RAB information for setup - RAB information info UNA Soxphorhorization Indicator - Re-establishment timer - RB information to setup - RB identity - CN domain identity - RB i | Information Element | Value/remark |
|--|---|-------------------------|
| IUTRAN DRX cycle length coefficient URA identity URA identity Signalling RB information to setup RAB information for setup - RAB information for setup - RAB information indicator - RAB identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - | | |
| CN information info URA identity Signalling RB information to setup RAB information for setup - RAB information for setup - RAB information for setup - RAB information in Setup - RAB information in Setup - RAB information in Setup - RB identity - CN domain identity - RB information in Setup - RB identity - RB information in Setup - RB identity - RB identity - RB identity - RB identity - PDC Pindo - CHOICE RLC info type - CHOICE RLC info type - CHOICE BLIC mode - Transmission RLC discard - SDU discard mode - MAX DAT - Timer_MRW - MaxMRW - MaxMRW - Transmission window size - Timer_RST - Polling info - Timer_poll prohibit - Timer_poll prohibit - Timer_poll prohibit - Imer_poll prohibit - Imer_poll prohibit - Imer_poll periodic - CHOICE Downlink RLC mode - Imer_spl Poll indicator - Timer_spl Poll | The second management | |
| URA identity Sipaniling RB information to setup RAB information for setup - RAB information - RAB identity - NAS Synchronization Indicator - Re- establishment timer - RB information to setup - RB information for setup - RB information to setup - RB information for setup - RB inform | | |
| Signalling RB information to setup - RAB information for setup - RAB information for setup - RAB information for setup - RAB information in setup - RAB information in setup - RAB information in setup - RAB information to setup - RB information for setup - CHOICE Uplink RLC mode - SDU discard mode - MAX_DAT - Timer_RMRW - MaxMRW - MaxMRW - MaxMRW - MaxMRW - Information for setup - Poll SDU - Last transmission PDU poll - Poll SDU - Last transmission PDU poll - Last transmission PDU poll - Poll Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status into - Timer_status_prohibut - Timer_status_prohibut - RB mapping into - Information for each multiplexing option - Information for each multiplexi | | |
| RAB information for setup - RAB identity - NAS Synchronization Indicator - Re- establishment timer - RB information to setup - RB information for | | |
| - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE QLink RLC mode - Transmission RLC discard - SDU discard mode - SDU discard mode - SDU discard mode - MAX_DAT - Timer_MRW - MaxMRW - MaxMRW - MaxMRW - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Poll_SDU - Last retransmission PDU poll - Last retransmission PDU poll - Last retransmission PDU poll - Foll_Windows - 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 - Number of uplink RLC legical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of downlink RLC logical channels - Downlink RLC logical channels - Downlink transport channel lype - UL 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 - 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 - Logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport 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 - CHOICE RLC size list - RLC size index - RLC logical channels identity - Logical channel of over t | | |
| - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Timer_MRW - MaxMRW - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_predicic - CHOICE Downlink RLC mode - Timer_poll_predicic - Horice Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_ETC - Missing PDU indicator - Number of uplink RLC logical channel is option - RLC logical channel info - Number of uplink RLC logical channels - Downlink transport channel itype - UL Transport channel itype - UL Transport channel itype - UL Delt Transport channel itype - UL Transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Downlink transport channel itype - UL Transport channel identity - CHOICE RLC size list - RLC size index - MAC logical channel info - Number of uplink RLC logical channels - Downlink RLC logical channels - MAC logical channel info - Number of uplink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channels - MAC logical channel | | |
| - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - Transmission RLC mode - MAX DAT - Timer_MRW - MaxMRW - MaxMRW - MaxMRW - MaxMRY - Transmission window size - Timer_RST - Polling info - Timer_poll_ prohibit - Timer_poll prohibit - Timer_poll prohibit - Timer_poll Poll - Last transmission PDU poll - Poll_SDU - Last transmission PDU poll - Poll_Windows - Timer_poll_prohibit - Timer_poll prohibit - Information for each multiplexing option - RCC logical channel info - Number of uplink RLC prodicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel info - Number of downlink RLC logical channels - Downlink RLC state list - MAC logical channel priority - Logical channel priority - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel info - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel priority - Downlink RLC size list - RLC size index - MAC logical channel info - Number of downlink RLC logical channels - Downlink RLC size index - MAC logical channel priority - Downlink RLC size index - MAC logical channel info - MAC logical channel info - Mac Dac Transport Channel info - Number of downlink RLC size inst - RLC size index - RLC size index - RLC size index - RLC size index - RLC | | |
| Re-establishment timer RB information to setup RB identity PDCP info CHOICE RLC info type CHOICE Uplink RLC mode Transmission RLC discard SDU discard mode MAX_DAT Timer_MRW MaxMRW Transmission window size Timer_RST Polling info Timer_poll Poll_Windows Timer_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_Status_prohibit Timer_EC Missing PDU indicator Timer_STATUS_periodic RB mapping info Information for each multiplexing option RLC logical channel identity CHOICE RLC Size list MAC logical channel priority Downlink RLC logical channels Downlink RLC logical channels Downlink RLC logical channels Downlink RLC logical channels Uplink transport channel identity Logical channel identity Logical channel mapping indicator Number of downlink RLC logical channels Uplink transport channel identity Logical channel identity Logical channel mapping indicator Number of uplink RLC logical channels Downlink RLC logical channels Uplink transport channel identity Logical channel identity Logical channel identity Logical channel identity RLC logical channel identity Logical channel identity Logical channel identity CHOICE RLC Size list RLC Size index MAC logical channel identity CHOICE RLC Size list RLC Size index RACH Not Present Not P | - CN domain identity | PS domain |
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| - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 channels - Number of downlink RLC logical channels DCH 6 Not Present Not Present 1 RACH Not Present 7 Explicit List 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 - Not Present Not Present Not Present - RACH Not Present - RACH Not Present - RACH Not Present - RACH Not Present - Not Present - RACH Not Present - Not Present - RACH Not Present - Not Present - RACH Not Present - Not Prese | | |
| - DL DSCH Transport channel identity - Logical channel identity - 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 channels - Number of downlink RLC logical channels Not Present Not Present Not Present Not Present 1 RACH Not Present 1 | | |
| - Logical channel identity - 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 channels - Number of downlink RLC logical channels Not Present Not Present 1 RACH Not Presen | | |
| - 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 channels - Number of downlink RLC logical channels Not Present 1 RACH Not Present 7 Explicit List 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - 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 1 RACH Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - 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 channels - Number of downlink RLC logical channels - UL Transport channel type - Not Present - Explicit List - Explicit List - Reference to TS34.108 clause 6 Parameter Set - 6 - Number of downlink RLC logical channels - 1 | | |
| - 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 Not Present 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - 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 7 Explicit List Reference to TS34.108 clause 6 Parameter Set 6 | | |
| - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - CHOICE RLC size list - Reference to TS34.108 clause 6 Parameter Set 6 - 1 | | |
| - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels Reference to TS34.108 clause 6 Parameter Set 6 1 | | · |
| - MAC logical channel priority 6 - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 | | |
| - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 | | |
| - Number of downlink RLC logical channels 1 | | |
| Describes transport shows all time | Number of downlink RLC logical channels | 1 |
| | - Downlink transport channel type | FACH |
| - DL DCH Transport channel identity Not Present | - DL DCH Transport channel identity | Not Present |

| Information Flowant | Valua/ramark |
|---|--|
| Information Element | Value/remark Not Present |
| - DL DSCH Transport channel identity | |
| - Logical channel identity RB information to be affected list | 7 Not Present |
| Downlink counter synchronisation info | Not Present |
| UL Transport channel information for all transport | Not Flesent |
| channels | |
| - PRACH TFCS | Not Present |
| - CHOICE mode | TDD |
| -Individual UL CCTrCH information | |
| - TFCS ID | (This IE is repeated for TFC number.) |
| - 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 |
| - 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 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 | 1 |
| - TFS | |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport format information | Deference to TC24 100 eleves 6 Decemptor Cat |
| - RLC Size | Reference to TS34.108 clause 6 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 Parameter Set |
| - CHOICE Logical Channel list | All |
| - Semi-static Transport Format information | 7411 |
| - Transmission time interval | Reference to TS34.108 clause 6 Parameter Set |
| - Type of channel coding | Reference to TS34.108 clause 6 Parameter Set |
| - Coding Rate | Reference to TS34.108 clause 6 Parameter Set |
| - Rate matching attribute | Reference to TS34.108 clause 6 Parameter Set |
| - CRC size | Reference to TS34.108 clause 6 Parameter Set |
| CHOICE mode | TDD (no data) |
| 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 | FALSE |
| - CHOICE DL parameters | Independent |
| - DL DCH TFCS | (This IE is repeated for TFC number.) |
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | |
| - CHOICE TFCS representation | Complete |
| - TFCS complete reconfigure | - Complete |
| information | |
| - CHOICE CTFC Size | Refer to TS34.108 clause 6. |
| | Refer to 1007.100 clause 0. |

Information Element Value/remark - CTFC information Refer to TS34.108 clause 6. Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type DCH - DL Transport channel identity - CHOICE DL parameters **Explicit** - TFS - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport format information (This IE is repeated for TFI number) - RLC Size Reference to TS34.108 clause 6 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 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6 Parameter Set - Type of channel coding Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set - Coding Rate - Rate matching attribute Reference to TS34.108 clause 6 Parameter Set - CRC size Reference to TS34.108 clause 6 Parameter Set - DCH quality target - BLER Quality value -6.3 - Transparent mode signalling info Not Present Frequency info -CHOICE mode - 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 signaled - CHOICE TDD option 1.28 Mcps - TPC step size 1 dB - Primary CCPCH Tx Power Not Present - CHOICE mode **TDD** - Uplink Timing Advance Control Not Present - UL CCTrCH List - TFCS Id - Time info - Activation time (256+CFN-(CFN MOD 8 + 8))MOD 256 - Duration Infinite - Common timeslot info - 2nd interleaving mode Reference to TS34.108 clause 6 Parameter Set - TFCI codina 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 - First individual timeslot info - Timeslot number The number of an uplink timeslot that has unassigned codes. - TFCI existence **TRUE** - Midamble shift and burst type - CHOICE TDD option 1.28 Mcps - Midamble allocation mode Default

16

QPSK

1.28 Mcps TDD

- Midamble configuration

- CHOICE TDD option

- Modulation

| Information Floreaut | Valuatramant |
|--|--|
| Information Element | Value/remark |
| - SS-TPC Symbols - First timeslot channelisation codes | 1 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 number of resources specified in TS34.108 section 6 and the number of slots in which they are being assigned. |
| 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 | Not i room |
| - DPC mode | 0 (single) |
| - CHOICE mode | TDD |
| - TPC step size | 1 dB |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps |
| - TSTD indicator | TRUE |
| - 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 mode | TDD |
| - CHOICE TDD option | 1.28 Mcps |
| - TSTD indicator | TRUE |
| - Cell parameters ID | 0 |
| - Block STTD indicator - Downlink DPCH info for each RL | FALSE |
| - CHOICE mode | TDD |
| - DL CCTrCH List | 100 |
| - TFCS ID | 1 |
| - Time info | |
| - 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 set |
| - Repetition period | 1 |
| - Repetition length | Empty |
| - Downlink DPCH timeslots and codes | |
| - Individual timeslot info | |
| - Timeslot number | The number of a downlink timeslot that has |
| TECL exists as | unassigned codes. |
| - TFCI existence | TRUE |
| Midamble shift and burst type CHOICE TDD option | 1.28 Mcps |
| | |
| -Midamble Allocation Mode | Default |
| - Midamble configuration | 16 |
| - CHOICE TDD option | 1.28 Mcps TDD |
| - Modulation | QPSK |

| Information Element | Value/remark |
|---|--|
| - SS-TPC Symbols | 1 |
| 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. |
| - 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 |

Contents of RADIO BEARER SETUP COMPLETE message: 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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE shall be present with the values of the sub |
| | IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| - 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. |
| - 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 |
| START | Not checked |
| 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 checked |
| | |

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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 |
| COUNT-C activation time | The presence of this IE depends on the following 2 |
| Radio bearer uplink ciphering activation time info | 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. 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 RRC CONNECTION REQUEST message: TM

| Information Element | Value/remark |
|--------------------------|--|
| Message Type | |
| 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 |
| Measured results on RACH | Not checked |

Contents of RRC CONNECTION RELEASE message: UM

| Information Element | Value/remark |
|-------------------------------|---|
| 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. |
| - SRNC identity | 0000 0000 0001B |
| - S-RNTI | 0000 0000 0000 0001B |
| RRC transaction identifier | 0 |
| Integrity check info | The presence of this IE depends on 2 factors: |
| | (a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. |
| | (b) 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. |
| - 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS |
| - 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)

| Information Element | Value/remark |
|--|---|
| 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 |
| Capability update requirement | Not Present |
| - UE radio access FDD capability update requirement | FALSE |
| - UE radio access TDD capability update requirement | TRUE |
| - System specific capability update requirement list | gsm |

| - : | |
|---|---|
| Information Element | Value/remark |
| Signalling RB information to setup | (UM DCCH for RRC) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |
| - RLC info | UM RLC |
| - CHOICE Uplink RLC mode | Not Present |
| - Transmission RLC discard | Not Present |
| | |
| - CHOICE Downlink RLC mode | UM RLC |
| - RB mapping info | OWINE |
| - 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 |
| - MAC logical channel priority | 1 |
| - Downlink RLC logical channel info | 4 |
| Number of RLC logical channels Downlink transport channel type | 1 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 | Explicit List |
| - RLC size index | According to TS34.108 clause 6 for standalone 13.6 kbps |
| MAC logical abancal priority | signalling radio bearer |
| MAC logical channel priority Downlink RLC logical channel info | 2 |
| - 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 |
| Signalling RB information to setup | (AM DCCH for RRC) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |
| - RLC info | AM BL 0 |
| - CHOICE Uplink RLC mode | AM RLC |
| Transmission RLC discard SDU discard mode | No Discard |
| - MAX_DAT | 415 |
| - IVIAN_DAT | 410 |
| | |
| - Transmission window size | 128 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | |
| Timer_poll_prohibit | 200 |
| - Timer_poll | 200 |
| - Poll_PDU | Not present |

| Information Element | Value/remark |
|---|---|
| - 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 |
| - 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 | 2 DDM:wOntions |
| - Information for each multiplexing option | 2 RBMuxOptions Not Present |
| - RLC logical channel mapping indicator | 1 |
| Number of RLC logical channels 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 | 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 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 Not Propert |
| - DL DCH Transport channel identity | Not Present |
| DL DSCH Transport channel identity Logical channel identity | Not Present 2 |
| Signalling RB information to setup | (AM DCCH for NAS_DT High priority) |
| - RB identity | Not Present |
| - CHOICE RLC info type | THOU I TOUGHT |
| - 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 Not present |
| - Poll_PDU | Not present |

| Information Element | Value/remark |
|---|---|
| - 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 3 |
| Logical channel identity CHOICE RLC size list | Configured |
| - MAC logical channel priority | 3 |
| - MAC logical channel phonty - 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 | According to TS34.108 clause 6 for standalone 13.6 kbps |
| MAQ1 : 1 1 : 1 | signalling radio bearer |
| - MAC logical channel priority | 4 |
| - Downlink RLC logical channel info | 4 |
| Number of RLC logical channels Downlink transport channel type | 1 FACH |
| - 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 |
| - 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 |
| - Transmission window size | 128 500 |
| - Timer_RST - Max_RST | 4 |
| - Max_K31 - Polling info | ¬ |
| - Tolling lind - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 |
| - Poll_PDU | Not present |
| · - · · | i i |

| Information Element - 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 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 RLC logical channels - Uplink transport channel identity - Logical channel identity - Downlink RLC logical channel identity - Downlink RLC logical channel identity - Downlink RLC logical channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DU DSCH Transport channel identity - DL DCH Transport channel identity - DCH Transport channel ide |
|--|
| - Last transmission PDU poll - Last transmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_STATUS_periodic - Missing PDU indicator - Timer_STATUS_periodic - 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 - Downlink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channel identity - RLC logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channel - Uplink transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel spee - UL Transport channel type - UL Transport channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel spee - UL Transport channel spee - UL Transport channel spee - UL Transport channel identity - RACH - Not Present - Not Pres |
| - Last retransmission PDÜ poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - TRUE - Not Present - TRUE - Not Present - Not Present - Not Present - Not Present - DCH - UL Transport channel type - UL Transport channel identity - Logical channel identity - Downlink RLC logical channel info - Number of RLC logical channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Uplink transport channel identity - Un Transport channel identity - Uplink transport channel identity - |
| - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - 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 RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - MAC logical channel info - Number of RLC logical channels - Downlink RLC logical channel info - Number of RLC logical channels - Downlink RLC logical channel info - Number of RLC logical channel info - Number of RLC logical channel info - Number of RLC logical channel identity - UL Transport channel type - UL Transport channel type - UL Transport channel identity - Logical channel ident |
| - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - 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 RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - MAC logical channel info - Number of RLC logical channels - Downlink RLC logical channel info - Number of RLC logical channels - Downlink RLC logical channel info - Number of RLC logical channel info - Number of RLC logical channel info - Number of RLC logical channel identity - UL Transport channel type - UL Transport channel type - UL Transport channel identity - Logical channel ident |
| - 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 - Timer_STATUS_periodic - 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 info - Number of RLC logical channels - Downlink RLC size list - Downlink RLC size list - Downlink RLC logical channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Downlink RLC logical channels - Downlink RLC logical channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - UL Transport channel identity - UL Transport channel identity - Uplink transport channel identity - UL Transport channel identi |
| - CHOICE 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 RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - Downlink RLC logical channels - Downlink transport channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Downlink RLC logical channels - Dusch Transport channel identity - Logical channel identity - Logical channel mapping indicator - Number of RLC logical channels - Dusch Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport ch |
| - 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 RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - Downlink RLC logical channel identity - DU DCH Transport channel identity - Logical channel identity - Logical channel identity - DU DCH Transport channel identity - Logical channel identity - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - Explicit List |
| - 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 RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - Downlink RLC logical channels - Downlink transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical ch |
| - 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 RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - Downlink RLC logical channels - Dumlink transport channel identity - Dumlink transport channel identity - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical |
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| - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - 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 - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel s - Dub DCH Transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel mapping indicator - Number of RLC logical channels - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - DL DCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logic |
| - Missing PDU indicator - Timer_STATUS_periodic - 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 - MAC logical channel riority - Downlink RLC logical channel info - Number of RLC logical channel spe - DL DCH Transport channel identity - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channe |
| - Timer_STATUS_periodic - 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 - MAC logical channel riority - Downlink RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity |
| - 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 - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel identity - |
| - 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 - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel i |
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| - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - Uplink transport channel identity - CHOICE RLC size list - Explicit List |
| - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 5 4 Configured 4 Configured 4 Not Present 1 Not Present 1 RACH Not Present 4 Explicit List |
| - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - Logical channel identity - Explicit List |
| - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - Configured 4 Configured 4 - UCH - VIII |
| - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list 4 - Wat Present - Not Present - RACH - RAC |
| - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list 1 DCH Not Present 1 RACH Not Present 1 RACH Not Present 4 Explicit List |
| - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List |
| - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List |
| - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - 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 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List |
| - DL DSCH Transport channel identity - Logical channel identity - 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 Not Present 1 RACH Not Present 4 Explicit List |
| - Logical channel identity - 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 4 Not Present 1 RACH Not Present 4 Explicit List |
| - 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 Not Present 1 RACH Not Present 4 Explicit List |
| - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 1 RACH Not Present 4 Explicit List |
| - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list RACH Not Present 4 Explicit List |
| - UL Transport channel identity - Logical channel identity - CHOICE RLC size list Not Present 4 Explicit List |
| - Logical channel identity - CHOICE RLC size list Explicit List |
| - 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 5 |
| - 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 |
| |
| 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 |
| |
| |
| 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 TrCH information list Not Present |
| |
| Added or Reconfigured UL TrCH information |

| Information Floment | Value/romark |
|--|---|
| Information Element | Value/remark |
| Uplink transport channel type UL Transport channel identity | DCH 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 - Transmission Time Interval | TDD According to TS34 108 playing 6 for standalone 13 6 kbps |
| - Hansinission time interval | According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer |
| - CHOICE Logical channel list | All |
| - Semi-static Transport Format information | 7 VII |
| 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 - Shared Channel Indicator | 1 |
| - CHOICE DL parameters | Same as UL |
| Added or Reconfigured TrCH information list | Sum de de |
| - 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 Transport channel identity | 5 |
| -DCH quality target - BLER Quality target | -6.3 |
| Frequency info | Not Present |
| Maximum allowed UL TX power | Not Present |
| HOICE channel requirement | Uplink DPCH info |
| - Uplink DPCH power control info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 3.84 Mcps |
| - UL target SIR | Reference to TS34.108 Parameter set |
| - CHOICE mode | TDD |
| - CHOICE <i>UL OL PC info</i> - CHOICE <i>TDD option</i> | Individually signalled 3.84 Mcps |
| - Individual timeslot interference info | Not Present |
| - Individual timeslot interference | |
| - DPCH Constant Value | |
| Primary CCPCH Tx Power | Not Present |
| - Time info | |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 |
| Duration Common timeslot info | Infinite |
| - 2 _{nd} 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 codes | Default is to use the old timeslots and codes |
| - CPCH SET Info | (no data) |
| 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 | |
| - 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 | |

| Information Element | Value/remark |
|---|---|
| - 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 _{nd} interleaving mode | Reference to TS34.108 |
| - TFCI coding | TRUE |
| - Puncturing limit | Reference to TS34.108 clause 6 Parameter set |
| - Repetition period | 1 |
| Repetition length Downlink DPCH timeslots and codes | Empty |
| - CHOICE more timeslots | |
| - CHOICE TDD option | 3.84 Mcps |
| - Timeslot number | The number of a downlink timeslot that has |
| - Timesiot number | unassigned codes in a frame. |
| - Individual timeslot info | dilassigned codes in a maine. |
| - TFCI existence | TRUE |
| - Midamble shift and burst type | 11102 |
| - CHOICE TDD option | 3.84 Mcps |
| -CHOICE Burst Type | 33.1 |
| -Type 1 | |
| -Midamble Allocation Mode | Default |
| - Midamble configuration burst | As defined in 3GPP TS 25.221 |
| 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 |
| 000001117 | N. D. |
| -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 |
|---|---|
| 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 |
| Capability update requirement | Not Present |
| - UE radio access FDD capability update | FALSE |

| 1.7 | W.L. |
|---|---|
| Information Element | Value/remark |
| requirement | TDIE |
| UE radio access TDD capability update requirement | TRUE |
| - System specific capability update | gsm |
| requirement list | |
| Signalling RB information to setup | (UM DCCH for RRC) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |
| RLC infoCHOICE Uplink RLC mode | UM RLC |
| - Transmission RLC discard | Not Present |
| - CHOICE Downlink RLC mode | UM RLC |
| - RB mapping info | OW NEC |
| - 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 |
| - MAC logical channel priority | 1 |
| - Downlink RLC logical channel info | |
| - Number of RLC logical channels | 1 |
| - Downlink transport channel type | DCH 10 |
| DL DCH Transport channel identity DL DSCH Transport channel identity | 10 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 | Explicit List |
| - RLC size index | According to TS34.108 clause 6 for standalone 13.6 kbps |
| | signalling radio bearer |
| - MAC logical channel priority | 2 |
| Downlink RLC logical channel info Number of RLC logical channels | |
| Number of REC logical channels Downlink transport channel type | 1 FACH |
| - DCH Transport channel identity | Not Present |
| - DL DSCH Transport channel identity - 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. B. |
| - SDU discard mode | No Discard |
| - MAX_DAT | 415 |
| - Transmission window size | 128 |
| - Timer_RST - Max_RST | 500 4 |
| - Max_RST - Polling info | * |
| - Timer_poll_prohibit | 200 |
| - Timer_poli_profilibit - Timer_poll | 200 |
| - Poll_PDU | Not present |
| · | |

| Information Element | Value/remark |
|---|---|
| - 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 |
| - 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 | 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 | 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 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 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 | AMBIO |
| - CHOICE Uplink RLC mode | AM RLC |
| - Transmission RLC discard | No Discord |
| - SDU discard mode | No Discard |
| - MAX_DAT | 415 |
| - Transmission window size | 128 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | 200 |
| - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 Not present |
| - Poll_PDU | Not present |

| Information Element | Valuatramant |
|---|---|
| | Value/remark |
| - Poll_SDU- Last transmission PDU poll | 1 |
| | TRUE |
| - Last retransmission PDU poll- Poll_Windows | TRUE |
| - Timer_poll_periodic | Not Present |
| - CHOICE Downlink RLC mode | AM RLC |
| - In-sequence delivery | TRUE |
| - Receiving window size | 128 |
| - Downlink RLC status info | 120 |
| - Timer_status_prohibit | 200 |
| - Timer EPC | Not Present |
| - Missing PDU indicator | TRUE |
| - Timer_STATUS_periodic | Not Present |
| - RB mapping info | THOU TOOGHT |
| - 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 Transport channel identity | 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 | 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 | 3 |
| Signalling RB information to setup | (AM DCCH for NAS_DT Low priority) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |
| - RLC info | AMBLO |
| - CHOICE Uplink RLC mode | AM RLC |
| - Transmission RLC discard | No diagonal |
| - SDU discard mode | No discard |
| - MAX_DAT | 415 |
| - Transmission window size | 128 |
| - Timer_RST | 500 |
| - Max_RST | 4 |
| - Polling info | 200 |
| - Timer_poll_prohibit | 200 |
| - Timer_poll | 200 Not present |
| - Poll_PDU | Not present |

| Information Element | Value/remark |
|---|--|
| - 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 | 2 PDM: wOnting |
| Information for each multiplexing option 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 | 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 RACH |
| Uplink transport channel type UL Transport channel identity | Not Present |
| - Logical channel identity | 4 |
| - 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 | 5 |
| - 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 |
| 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 |
| - 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 |
| - TFCI Field 1 information | |
| - TFCS complete reconfigure | |
| information CHOICE TECS Size | Number of used hits must be enough to source |
| - 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 UL TrCH information | |
| • | • |

| Information Element | Value/remark |
|--|--|
| - Uplink transport channel type | DCH Value/remark |
| - UL Transport channel identity | 5 |
| - TFS | J S |
| - 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 kbps signalling radio bearer |
| - CHOICE Logical channel list | All |
| - Semi-static Transport Format information | \text{\tint{\text{\text{\text{\text{\text{\tint{\text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\ti}\tint{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\texi}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tint{\text{\texi}\tint{\text{\texi}\tint{\text{\ti}\tint{\ti}\tint{\text{\text{\tin}\tint{\tin}\tint{\text{\tin}\tint{\tin}\ |
| DL Transport channel information common for all | |
| transport channel | |
| - SCCPCH TFCS | Not Present |
| - CHOICE mode | TDD |
| -Individual DL CCTrCH information | |
| - DL TFCS Identity | 4 |
| - TFCS ID | 1 |
| Shared Channel Indicator CHOICE DL parameters | Same as UL |
| Added or Reconfigured TrCH information list | Same as OL |
| - 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 Transport channel identity | 5 |
| -DCH quality target | 6.2 |
| - BLER Quality target Frequency info | -6.3 Not Present |
| Maximum allowed UL TX power | Not Present |
| HOICE channel requirement | Uplink DPCH info |
| - Uplink DPCH power control info | |
| - CHOICE mode | TDD |
| - CHOICE TDD option | 1.28 Mcps |
| - PRX _{PDPCHdes} | 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 - Primary CCPCH Tx Power | Not Present Not Present |
| - Time info | Not i resent |
| - Activation time | (256+CFN-(CFN MOD 8 + 8))MOD 256 |
| - Duration | Infinite |
| - Common timeslot info | |
| - 2 _{nd} 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 Reference to TS34.108 clause 6 Parameter Set |
| Repetition PeriodRepetition Length | Reference to TS34.108 clause 6 Parameter Set |
| - Uplink DPCH timeslots and codes | Default is to use the old timeslots and codes |
| - CPCH SET Info | (no data) |
| 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 | O (oingle) |
| - DPC mode - CHOICE mode | 0 (single) |
| - CHOICE Mode - CHOICE TDD option | TDD 1.28 Mcps |
| - TSTD indicator | 1.20 Micha |
| - Default DPCH Offset Value | Not Present |
| Downlink information for each radio link list | |
| - Downlink information for each radio link | |
| - Choice mode | TDD |

| Information Element | Value/remark |
|---------------------------------------|---|
| - 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 | 100 |
| - TFCS ID | 1 |
| - Time info | |
| - Activation time | (256+CFN-(CFN mod 8 + 8))mod 256 |
| - Duration | infinite |
| - Common timeslot info | IIIIIIII.e |
| - 2 _{nd} interleaving mode | Reference to TS34.108 |
| 9 | TRUF |
| - TFCI coding - Puncturing limit | Reference to TS34.108 clause 6 Parameter set |
| | |
| - Repetition period | 1 Constru |
| - Repetition length | Empty |
| - Downlink DPCH timeslots and codes | |
| - CHOICE more timeslots | 4.00 M |
| - CHOICE TDD option | 1.28 Mcps |
| - Timeslot number | The number of a downlink timeslot that has |
| | unassigned codes in a subframe. |
| - Individual timeslot info | a management of the second of |
| - TFCI existence | TRUE |
| - Midamble shift and burst type | |
| - CHOICE TDD option | 1.28 Mcps |
| -CHOICE Burst Type | |
| -Type 1 | |
| -Midamble Allocation Mode | Default |
| - Midamble configuration | As defined in 3GPP TS 25.221 |
| - First timeslot channelisation codes | |
| - First channelisation code | (i/SF) where i is the lowest numbered code |
| The chambondaton oodo | 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 |
| Edot oridinionation oddo | that is being assigned in the slot. |
| - CHOICE more timeslots | The presence of this IE depends upon whether |
| - OF IOIOE MOTE UITIESIOIS | 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 COMPLETE message: $\ensuremath{\mathsf{AM}}$

| 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 | Value/remark |
|---|--|
| Message Type | |
| 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 |
| - RRC Message Sequence Number | Set to an arbitrarily selected integer between 0 and 15 |
| Security capability | |
| - 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 |
| Olpholing mode into | 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. |
| - 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 | The presence of this IE is dependent on IXIT statements |
| integrity protection mode into | in TS 34.123-32. If integrity protection is indicated to be |
| | active, this IE is present with the values of the sub IEs as |
| | stated below. Else, this IE and the sub-IEs are omitted. |
| - Integrity protection mode command | Start |
| - Downlink integrity protection activation info | Not Present |
| - Integrity protection algorithm | UIA1 |
| - Integrity protection algorithm - Integrity protection initialisation number | SS selects an arbitrary 32 bits number for FRESH |
| CN domain identity | Supported domain |
| UE system specific security capability | Not Checked |
| OL System specific security capability | INOT OHEOVER |

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 | The presence of this IE is dependent on IXIT statements |
| | in TS 34.123-2. If integrity protection is indicated to be |
| | active, this IE shall be present with the values of the sub |
| | IEs as stated below. Else, this IE and the sub-IEs shall be |
| | absent. |
| - 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. |
| - 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 | The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. |
| - 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. |
| - 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 and UE test loop mode 1 without Dummy DCCH transmission are set to default message contents.

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 | |
| 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 (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

| Information Element | Condition | Value/remark |
|---|-----------|--|
| Message Type | A1,A3 | |
| RRC transaction identifier | | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | | The presence of this IE is dependent on IXIT |
| | | statements in TS 34.123-2. If integrity |
| | | protection is indicated to be active, this IE is |
| | | present with the values of the sub IEs as |
| | | stated below. 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. |
| - 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 |
| RRC State indicator | | CELL_DCH |
| UTRAN DRX cycle length coefficient | | Not Present |
| CN information info | | Not Present |
| URA identity | | Not Present |
| Signalling RB information to setup | | Not Present |
| RAB information for setup list | A1 | |
| - RAB information for setup | | |
| - RAB info | | |
| - RAB identity | | 0000 0001B |
| - CN domain identity | | CS domain |
| - NAS Synchronization Indicator | | Not Present |
| - Re-establishment timer | | UseT314 |
| - RB information to setup list | | |
| - RB information to setup | | 40 |
| - RB identity | | 10 |
| - PDCP info | | Not Present |
| - CHOICE RLC info type - CHOICE Uplink RLC mode | | RLC info TM RLC |
| - Transmission RLC discard | | Not Present |
| - Segmentation indication | | FALSE |
| - CHOICE Downlink RLC mode | | TM RLC |
| - Segmentation indication | | FALSE |
| - RB mapping info | | TALOL |
| - 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 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 | | |
| - RAB info | | |
| - RAB identity | | 0000 0101B |
| - CN domain identity | | PS domain |
| - NAS Synchronization Indicator | | Not Present |
| - Re-establishment timer | | UseT314 |
| - RB information to setup list | | |
| - RB information to setup | | |
| - RB identity | | 20 |
| | | · |

| Information Element | Condition | Value/remark |
|---|-----------|--|
| - PDCP info | Condition | Not Present |
| - CHOICE RLC info type | | RLC info |
| - CHOICE Uplink RLC mode | | AM RLC |
| - Transmission RLC discard | | 7 WINES |
| - CHOICE SDU discard mode | | No discard |
| - MAX_DAT | | 15 |
| - MAX_DAT - Transmission window size | | 128 |
| | | 500 |
| - Timer_RST | | 4 |
| - Max_RST | | 4 |
| - Polling info | | 200 |
| - 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 | | 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 |
| - 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 |
| - 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 |
| NEO SIZO IIIOOX | | Set |
| - MAC logical channel priority | | 6 |
| - MAC logical channel priority - Downlink RLC logical channel info | | • |
| - Number of downlink RLC logical channels | | 1 |
| - Downlink transport channel type | | FACH |
| - DCH Transport channel type - DL DCH Transport channel identity | | Not Present |
| - DL DSCH Transport channel identity - DL DSCH Transport channel identity | | Not Present |
| - Logical channel identity | | Not Present |
| | A4 A2 | |
| RB information to be affected list | A1,A3 | Not Present |
| Downlink counter synchronisation info | A4 A2 | Not Present |
| UL Transport channel information for all transport | A1,A3 | |
| channels | | Not Droppet |
| - PRACH TFCS | | Not Present |
| - CHOICE mode | | FDD |
| - TFC subset | | Not Present |
| - UL DCH TFCS | | Newsel |
| - CHOICE TFCI signalling | | Normal |
| - TFCI Field 1 information | | |
| - CHOICE TFCS representation | | Complete reconfiguration |

| Information Element | Condition | 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 _{p-m} | | Not Present |
| - 2bit CTFC | | 2 |
| - Power offset Information | | |
| - CHOICE Gain Factors | | Computed Gain Factors |
| - Reference TFC ID | | 0 |
| - CHOICE mode | | FDD |
| | | Not Present |
| - Power offset P _{p-m} | | |
| - 2bit CTFC | | 1 |
| - Power offset Information | | Committed Cain Factors |
| - CHOICE Gain Factors | | Computed Gain Factors |
| - Reference TFC ID | | 0 |
| - CHOICE mode | | FDD |
| - Power offset P _{p-m} | | 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 | | FDD |
| - Power offset P _{p-m} | | Not Present |
| Deleted UL TrCH information list | | Not Present |
| Added or Reconfigured UL TrCH information list | A1 | 1 |
| - Added or Reconfigured UL TrCH information | AI | |
| - Uplink transport channel type | | DCH |
| - UL Transport channel identity | | 1 |
| - TFS | | |
| - CHOICE Transport channel type | | Dedicated transport channels |
| - Dynamic Transport Format Information | | Bodicated transport charmele |
| - RLC size | | 244 bits |
| - Number of TBs and TTI List | | 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 |
| - Coding Rate | | 1/3 |
| - Rate matching attribute | | 256 |
| - CRC size | | 16 |
| CHOICE mode | A1, A3 | FDD |
| - CPCH set ID | | Not Present |
| - Added or Reconfigured TrCH information for DRAC | | Not Present |
| list | | |
| DL Transport channel information common for all | A1,A3 | |
| transport channel | | |
| - SCCPCH TFCS | | Not Present |
| - CHOICE mode | | FDD |
| - CHOICE DL parameters | | Same as UL |
| Deleted DL TrCH information list | A1,A3 | 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 |

| Information Element | Condition | Value/remark |
|---|-----------|-----------------------------------|
| - CHOICE DL parameters | | Same as UL |
| - Uplink transport channel type | | DCH |
| - UL TrCH identity | | 1 |
| - DCH quality target | | |
| - BLER Quality value | | -2.0 |
| - Transparent mode signalling info | | Not Present |
| Frequency info | A1,A3 | Not Present |
| Maximum allowed UL TX power | | 33dBm |
| CHOICE channel requirement - Uplink DPCH power control info | | Uplink DPCH info |
| - CHOICE mode | | FDD |
| - DPCCH power offset | | -6dB |
| - PC Preamble | | 1 frame |
| - SRB delay | | 7 frames |
| - Power Control Algorithm | | Algorithm1 |
| - TPC step size | | 1dB |
| - CHOICE mode | | FDD |
| - Scrambling code type | | Long |
| - Scrambling code number | | 0 (0 to 16777215) |
| - Number of DPDCH | | 1 |
| - spreading factor - TFCI existence | | 64 TRUE |
| - Number of FBI bit | | Not Present(0) |
| - Number of FBI bit - Puncturing Limit | | 1 |
| CHOICE Mode | | FDD |
| - Downlink PDSCH information | | Not Present |
| 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 | | EDD |
| - CHOICE mode - DPC mode | | FDD |
| - CHOICE mode | | 0 (single) FDD |
| - Power offset P _{Pilot-DPDCH} | | 0 |
| - DL rate matching restriction information | | Not Present |
| - Spreading factor | | 128 |
| - Fixed or Flexible Position | | Fixed |
| - TFCI existence | | TRUE |
| - CHOICE SF | | 128 |
| - Number of bits for Pilot bits | | 8 |
| - CHOICE mode | | FDD |
| - DPCH compressed mode info | | Not Present |
| - TX Diversity mode - SSDT information | | None Not Present |
| - Default DPCH Offset Value | | Not Present |
| Downlink information for per radio link list | A1,A3 | HOLI IOJOH |
| - 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 |
| - Downlink DPCH info for each RL | | LDD. |
| - CHOICE mode | | FDD Primary CPICH may be used |
| Primary CPICH usage for channel estimation DPCH frame offset | | Primary CPICH may be used 0 chips |
| - Secondary CPICH info | | Not Present |
| - DL channelisation code | | Tion Toolin |
| - Secondary scrambling code | | 1 |
| - Spreading factor | | 128 |
| - 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 |

| 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 RRC CONNECTION RELEASE message: UM

| Information Element | Value/remark |
|-------------------------------|---|
| Message Type | |
| U-RNTĪ | This IE is set to the following value when the message is transmitted on the DCCCH. When transmitted on CDCCH, this is absent. |
| - SRNC identity | 0000 0000 0001B |
| - SRNC Identity | 0000 0000 0001B |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3 |
| Integrity check info | The presence of this IE depends on 2 factors: |
| Integrity check into | (a) IXIT statements in TS 34.123-2: If integrity protection is |
| | indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. |
| | (b) 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. |
| - 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 SETUP message: UM

| Information Element | Value/remark |
|--|---|
| 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 |
| 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 |
| - 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 | 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 | 1 |
| - Signalling RB information to setup | (AM DCCH for RRC) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |

| Information Element | Value/remark |
|--|--|
| - 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 |
| - Receiving window size - Downlink RLC status info | 120 |
| - Timer_status_prohibit | 200 |
| - Timer_Status_profibit - Timer_EPC | Not Present |
| | TRUE |
| - Missing PDU indicator | Not Present |
| - Timer_STATUS_periodic | Not Flesent |
| - RB mapping info | 2 DDM:wOntions |
| - Information for each multiplexing option | 2 RBMuxOptions |
| - RLC logical channel mapping indicator | Not Present |
| - Number of RLC logical channels | DCH I |
| - Uplink transport channel type - UL Transport channel identity | DCH |
| | 5 |
| - Logical channel identity - CHOICE RLC size list | Configured |
| | Configured |
| - MAC logical channel priority | 2 |
| Downlink RLC logical channel info Number of RLC logical channels | 4 |
| _ | 1 DCU |
| - Downlink transport channel type | DCH |
| - DL DCH Transport channel identity | 10 Not Procent |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | 2 Not Propert |
| - RLC logical channel mapping indicator | Not Present |
| - Number of RLC logical channels | |
| - Uplink transport channel type | RACH |
| - UL Transport channel identity | Not Present |
| - Logical channel identity | 2 Explicit Liet |
| - 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 | 4 |
| - Number of RLC logical channels | I FACIL |
| - Downlink transport channel type | FACH |
| - DL DCH Transport channel identity | Not Present |
| - DL DSCH Transport channel identity | Not Present |
| - Logical channel identity | (AM DOOL for NACE DT High regionity) |
| - Signalling RB information to setup | (AM DCCH for NAS_DT High priority) |
| - RB identity | Not Present |
| - CHOICE RLC info type | |
| - RLC info | |

| Information Element | Value/remark |
|--|--|
| - 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 | 200 |
| - 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 Transport channel identity | Not Present |
| - De Transport Charmer 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 | A |
| | * |
| - Downlink RLC logical channel info - Number of RLC logical channels | 1 |
| _ | FACH |
| - Downlink transport channel type | Not Present |
| - DL DCH Transport channel identity | |
| - 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 | AM PLO |
| - CHOICE Uplink RLC mode | AM RLC |

| Information Element | Value/remark |
|--|--|
| - 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 | THOU TOOOTIC |
| - 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 | 5 |
| - 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 |
| UL Transport channel information for all transport | |
| channels | |
| - PRACH TFCS | Not Present |
| - CHOICE Mode | FDD |
| - TFC subset | Not Present |
| - UL DCH TFCS | |

| Information Element | Value/remark |
|---|------------------------------|
| - CHOICE TFCI signalling | Normal |
| - TFCI Field 1 information | Normal |
| - CHOICE TFCS representation | Complete reconfiguration |
| - TFCS complete reconfiguration information | Complete recorning drawers |
| - 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 | |
| - Uplink transport channel type | DCH |
| - UL Transport channel identity | 5 |
| - TFS | 3 |
| | Dedicated transport shannels |
| - CHOICE Transport channel type | Dedicated transport channels |
| - Dynamic Transport Format Information - RLC size | 96 bits |
| - Number of TBs and TTI List | 2 |
| - Transmission Time Interval | Not Present |
| - Number of Transport blocks | 0 |
| - Transmission Time Interval | Not Present |
| - Number of Transport blocks | Not Fresent |
| - 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 Indee | Same as UL |
| Added or Reconfigured DL TrCH information list | 1 |
| - Added or Reconfigured DL TrCH information | |
| - Downlink transport channel type | DCH |
| - DU Transport channel identity | 10 |
| - CHOICE DL parameters | SameAasUL |
| - Uplink transport channel type | DCH |
| - UL TrCH Identity | 5 |
| - DCH quality target | |
| - BLER Quality value | -2.0 |
| Frequency info | Not Present |
| Maximum allowed UL TX power | Not Present |
| CHOICE channel requirement | Uplink DPCH info |
| 101010 Condition requirement | John W. Dr. Ott IIIIO |

| Information Element | Value/remark |
|---|--|
| | value/i ciliai k |
| 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 |
| - 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 | |
| - Timing Indication | Initialise |
| - CFN-targetSFN frame offset | Not Present |
| - Downlink DPCH power control information | |
| - CHOICE mode | FDD |
| - DPC mode | 0 (single) |
| - CHOICE mode | FDD |
| - Power offset P Pilot-DPDCH | 0 |
| - 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 |
| - 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 |
| Downlink information for per radio links list | |
| -Downlink information for each radio links | |
| - CHOICE mode | FDD |
| - Primary CPICH info | |
| - 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 | 1 |
| - Spreading factor | 256 |
| - Code number | 0 |
| - 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 |
| - SCOPOLI IIIIOIIIIAIIOII IOI FACT | INOUT TESEUR |

Contents of SECURITY MODE COMMAND 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 an arbitrarily selected 32-bits integer | | | |
| - 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 | 00000000000010B (UIA1) | | | |
| - UIA1 | TRUE | | | |
| - Spare | Spare 0 and Spare 2-15 = 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. | | | |
| Cinharina mada sammand | Else, this IE is omitted. | | | |
| - Ciphering mode command - Ciphering algorithm | Start/restart | | | |
| - Cipriering 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 ciphering algorithm | | | |
| | specified in "ciphering | | | |
| - Ciphering activation time for DPCH | Not Present | | | |
| - Radio bearer downlink ciphering activation time | THOU TOOSIN | | | |
| 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 | The presence of this IE is dependent on IXIT statements in | | | |
| | TS 34.123-32. If integrity protection is indicated to be | | | |
| | active, this IE is present with the values of the sub IEs as | | | |
| | stated below. Else, this IE and the sub-IEs are omitted. | | | |
| - Integrity protection mode command | Start | | | |
| 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 | Not Checked | | | |

Annex A (informative): System information definition using ASN.1 description

Reference: clause 6.1.

```
MasterInformationBlock
mib-ValueTag 1,
plmn-Type {
   gsm-MAP {
        plmn-Identity {
            mcc {
                MCC 0,
                MCC 0,
                MCC 1
            },
            mnc {
                MNC 1
sibSb-ReferenceList {
   SIBSb-ReferenceList {
        sibSb-Type sysInfoTypeSB1 1,
        scheduling {
            scheduling {
                segCount 1,
                sib-Pos {
                    rep16 1
            }
    SIBSb-ReferenceList {
        sibSb-Type sysInfoType1 2,
        scheduling {
            scheduling {
                segCount 1,
                sib-Pos {
                    rep128 5
            }
    SIBSb-ReferenceList {
        sibSb-Type sysInfoType2 2,
        scheduling {
            scheduling {
                segCount 1,
                sib-Pos {
                    rep128 7
            }
    SIBSb-ReferenceList {
        sibSb-Type sysInfoType3 1,
        scheduling {
            scheduling {
                segCount 1,
                sib-Pos {
                    rep64 3
            }
    SIBSb-ReferenceList {
        sibSb-Type sysInfoType4 1,
        scheduling {
            scheduling {
                segCount 1,
                sib-Pos {
                    rep64 19
```

```
}
             }
        }
    }
SysInfoTypeSB1
    sib-ReferenceList {
        {
             sib-Type sysInfoType5 : 1,
             scheduling {
                 scheduling {
                     segCount 3,
                     sib-Pos rep128 : 13,
                     sib-PosOffsetInfo {
                           so2,
                           so2
                     }
                 }
             }
             sib-Type sysInfoType6 : 1,
             scheduling {
                 scheduling {
                     segCount 3,
                     sib-Pos rep128 : 21,
                     sib-PosOffsetInfo {
                          so2,
                           so2
                 }
            }
             sib-Type sysInfoType7 : NULL,
             scheduling {
                 scheduling {
                     segCount 1,
                     sib-Pos rep128 : 11
             }
             sib-Type sysInfoType11 : 1,
             scheduling {
                 scheduling {
                     segCount 2,
                     sib-Pos rep128 : 29,
                     sib-PosOffsetInfo {
                          so2
                 }
            }
             sib-Type sysInfoType12 : 1,
             scheduling {
    scheduling {
                     segCount 2,
                     sib-Pos rep128 : 53,
                     sib-PosOffsetInfo {
                          so2
            }
        }
    }
}
SysInfoType1
    cn-CommonGSM-MAP-NAS-SysInfo '00 80'H,
    cn-DomainSysInfoList {
             cn-DomainIdentity ps-domain,
cn-Type gsm-MAP : '00 00'H,
```

```
cn-DRX-CycleLengthCoeff 7
            cn-DomainIdentity cs-domain,
cn-Type gsm-MAP : '1E 01'H,
            cn-DRX-CycleLengthCoeff 7
    ue-ConnTimersAndConstants {
        t-301 ms2000,
        n-301 2,
        t-302 ms4000,
n-302 3,
        t-304 ms1000,
        n-304 3,
        t-305 m60,
        t-307 s50,
        t-308 ms320,
        t-309 8,
        t-310 ms320,
        n-310 5,
        t-311 ms500,
        t-312 5,
        n-312 s200,
        t-313 10,
        n-313 s20,
        t-314 s20,
        t-315 s30,
        n-315 s200,
        t-316 s50,
        t-317 s1800
    ue-IdleTimersAndConstants {
        t-300~ms400,
        n-300 7,
        t-312 10,
        n-312 s200
}
SysInfoType2
    ura-IdentityList {
         '00000000 00000001'B
}
SysInfoType3
    sib4indicator TRUE,
    cellIdentity '00000000 00000000 00000000 0001'B,
    cellSelectReselectInfo {
        mappingInfo {
            {
                 rat utra-FDD,
                 mappingFunctionParameterList {
                     {
                         functionType linear,
                         mapParameter1 1,
                         mapParameter2 1,
                         upperLimit 1
                     }
                 }
            }
        cellSelectQualityMeasure cpich-Ec-N0 : {
            q-HYST-2-S 0
        },
        modeSpecificInfo fdd : {
            s-Intrasearch 8,
            s-Intersearch 8,
            s-SearchHCS 5,
            q-QualMin -20,
            q-RxlevMin -58
        q-Hyst-1-S 0,
        t-Reselection-S 0,
        hcs-ServingCellInformation {
```

```
hcs-PRIO 0,
            q-HCS 0,
            t-CR-Max notUsed : NULL
        },
        maxAllowedUL-TX-Power 33
    },
    cellAccessRestriction {
        cellBarred notBarred : NULL,
        {\tt cellReservedForOperatorUse\ notReserved},
        cellReservationExtension notReserved,
        accessClassBarredList {
             notBarred,
             notBarred.
             notBarred,
             notBarred
    }
}
SysInfoType4
    cellIdentity '00000000 00000000 00000000 0001'B,
    cellSelectReselectInfo {
        mappingInfo {
                rat utra-FDD,
                mappingFunctionParameterList {
                    {
                        functionType linear,
                        mapParameter1 1,
                        mapParameter2 1,
                        upperLimit 1
                }
            }
        cellSelectQualityMeasure cpich-Ec-N0 : {
           q-HYST-2-S 0
        modeSpecificInfo fdd : {
            s-Intrasearch 8,
            s-Intersearch 8,
            s-SearchHCS 5,
            q-QualMin -20,
            q-RxlevMin -58
        },
        q-Hyst-l-S 0,
        t-Reselection-S 0,
        hcs-ServingCellInformation {
            hcs-PRIO 0,
            q-HCS 0,
            t-CR-Max notUsed : NULL
        maxAllowedUL-TX-Power 33
    cellAccessRestriction {
        cellBarred notBarred : NULL,
        cellReservedForOperatorUse notReserved,
        cellReservationExtension notReserved,
        accessClassBarredList {
            notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
```

```
notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred,
             notBarred
        }
    }
}
SysInfoType5
    sib6indicator TRUE,
    pich-PowerOffset -5,
   modeSpecificInfo fdd : {
       aich-PowerOffset 0
   primaryCCPCH-Info fdd : {
        tx-DiversityIndicator FALSE
    prach-SystemInformationList {
            prach-RACH-Info {
               modeSpecificInfo fdd : {
                   availableSignatures '00000000 111111111'B,
                    availableSF sfpr64,
                    preambleScramblingCodeWordNumber 0,
                    puncturingLimit pl1,
                    availableSubChannelNumbers '11111111 1111'B
            },
            transportChannelIdentity 15,
            rach-TransportFormatSet commonTransChTFS : {
                tti tti20 : {
                        rlc-Size fdd : {
                           octetModeRLC-SizeInfoType2 sizeType1 : 15
                        numberOfTbSizeList {
                             one : NULL
                        logicalChannelList configured : NULL
                        rlc-Size fdd : {
                           octetModeRLC-SizeInfoType2 sizeType2 : 3
                        numberOfTbSizeList {
                             one : NULL
                        logicalChannelList configured : NULL
                    }
                semistaticTF-Information {
                    channelCodingType convolutional : half,
                    rateMatchingAttribute 150,
                    crc-Size crc16
            },
            rach-TFCS normalTFCI-Signalling : complete : {
                ctfcSize ctfc2Bit : {
                    {
                        ctfc2 0,
                        powerOffsetInformation {
                            gainFactorInformation computedGainFactors : 0,
                            powerOffsetPp-m -5
                    },
{
                        ctfc2 1,
                        powerOffsetInformation {
                            gainFactorInformation signalledGainFactors : {
                                modeSpecificInfo fdd : {
                                    gainFactorBetaC 10
```

```
gainFactorBetaD 15,
                    referenceTFC-ID 0
                powerOffsetPp-m -5
        }
    }
prach-Partitioning fdd : {
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
        }
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
    },
{
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
    },
{
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
        accessServiceClass-FDD {
            availableSignatureStartIndex 0,
            availableSignatureEndIndex 7,
            assignedSubChannelNumber '1111'B
        }
persistenceScalingFactorList {
    psf0-9,
    psf0-9,
    psf0-9,
    psf0-9,
    psf0-9,
    psf0-9
ac-To-ASC-MappingTable {
    6,
     4,
```

```
3,
             2,
             1,
             0
        modeSpecificInfo fdd : {
            primaryCPICH-TX-Power 31,
            constantValue -10,
            prach-PowerOffset {
               powerRampStep 3,
               preambleRetransMax 2
            },
            rach-TransmissionParameters {
                mmax 2,
                nb01Min 3,
               nb01Max 10
            aich-Info {
               channelisationCode256 3,
                sttd-Indicator FALSE,
                aich-TransmissionTiming e0
       }
   }
sCCPCH-SystemInformationList {
        secondaryCCPCH-Info {
           modeSpecificInfo fdd : {
               pCPICH-UsageForChannelEst mayBeUsed,
                sttd-Indicator FALSE,
               sf-AndCodeNumber sf64 : 1,
               pilotSymbolExistence FALSE,
               tfci-Existence TRUE,
                positionFixedOrFlexible flexible,
                timingOffset 0
            }
        },
        tfcs normalTFCI-Signalling : complete : {
            ctfcSize ctfc4Bit : {
                {
                    ctfc4 0
                    ctfc4 1
                    ctfc4 2
                    ctfc4 3
                    ctfc4 4
                    ctfc4 5
                    ctfc4 6
                    ctfc4 8
                    ctfc4 10
        fach-PCH-InformationList {
                transportFormatSet commonTransChTFS : {
                    tti tti10 : {
                            rlc-Size fdd : {
                                octetModeRLC-SizeInfoType2 sizeType1 : 24
                            numberOfTbSizeList {
```

zero : NULL,

```
one : NULL
                                logicalChannelList allSizes : NULL
                        },
                        semistaticTF-Information {
                           channelCodingType convolutional : half,
                            rateMatchingAttribute 230,
                           crc-Size crc16
                    },
                    transportChannelIdentity 12,
                    ctch-Indicator FALSE
                    transportFormatSet commonTransChTFS : {
                        tti tti10 : {
                                rlc-Size fdd : {
                                   octetModeRLC-SizeInfoType2 sizeType1 : 15
                                numberOfTbSizeList {
                                    zero : NULL,
                                     one : NULL,
                                     small : 2,
                                     small: 3
                                logicalChannelList allSizes : NULL
                        semistaticTF-Information {
                           channelCodingType convolutional : half,
                            rateMatchingAttribute 220,
                            crc-Size crc16
                    transportChannelIdentity 13,
                    ctch-Indicator FALSE
                    transportFormatSet commonTransChTFS : {
                        tti tti10 : {
                                rlc-Size fdd : {
                                   octetModeRLC-SizeInfoType2 sizeType2 : 3
                                numberOfTbSizeList {
                                    zero : NULL,
                                    one : NULL
                                logicalChannelList allSizes : NULL
                        semistaticTF-Information {
                            channelCodingType turbo : NULL,
                            rateMatchingAttribute 130,
                            crc-Size crc16
                    transportChannelIdentity 14,
                    ctch-Indicator FALSE
            },
            pich-Info fdd : {
                channelisationCode256 2,
                pi-CountPerFrame e18,
                sttd-Indicator FALSE
           }
       }
   }
}
SysInfoType6
   pich-PowerOffset -5,
   modeSpecificInfo fdd : {
       aich-PowerOffset 0
```

```
primaryCCPCH-Info fdd : {
   tx-DiversityIndicator FALSE
prach-SystemInformationList {
   {
        prach-RACH-Info {
            modeSpecificInfo fdd : {
                availableSignatures '00000000 111111111'B,
                availableSF sfpr64,
                preambleScramblingCodeWordNumber 0,
                puncturingLimit pl1,
                availableSubChannelNumbers '11111111 1111'B
        },
        transportChannelIdentity 15,
        rach-TransportFormatSet commonTransChTFS : {
            tti tti20 : {
                {
                    rlc-Size fdd : {
                        octetModeRLC-SizeInfoType2 sizeType1 : 15
                    numberOfTbSizeList {
                         one : NULL
                    logicalChannelList configured : NULL
                },
{
                    rlc-Size fdd : {
                        octetModeRLC-SizeInfoType2 sizeType2 : 3
                    numberOfTbSizeList {
                         one : NULL
                    logicalChannelList configured : NULL
            },
            semistaticTF-Information {
                channelCodingType convolutional : half,
                rateMatchingAttribute 150,
                crc-Size crc16
        },
        rach-TFCS normalTFCI-Signalling : complete : {
            ctfcSize ctfc2Bit : {
                {
                    ctfc2 0.
                    powerOffsetInformation {
                        gainFactorInformation computedGainFactors : 0,
                        powerOffsetPp-m -5
                    ctfc2 1,
                    powerOffsetInformation {
                        {\tt gainFactorInformation\ signalledGainFactors\ :\ \{}
                            modeSpecificInfo fdd : {
                                gainFactorBetaC 10
                            gainFactorBetaD 15,
                            referenceTFC-ID 0
                        powerOffsetPp-m -5
                    }
                }
            }
        prach-Partitioning fdd : {
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
                }
            },
{
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
```

}

{

```
availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
                }
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
            },
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
            },
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
                accessServiceClass-FDD {
                    availableSignatureStartIndex 0,
                    availableSignatureEndIndex 7,
                    assignedSubChannelNumber '1111'B
            }
        persistenceScalingFactorList {
             psf0-9,
             psf0-9,
             psf0-9,
             psf0-9,
             psf0-9,
             psf0-9
        modeSpecificInfo fdd : {
            primaryCPICH-TX-Power 31,
            constantValue -10,
            prach-PowerOffset {
                powerRampStep 3,
                preambleRetransMax 2
            rach-TransmissionParameters {
                mmax 2,
                nb01Min 3,
                nb01Max 10
            aich-Info {
                channelisationCode256 3,
                sttd-Indicator FALSE,
                aich-TransmissionTiming e0
        }
sCCPCH-SystemInformationList {
        secondaryCCPCH-Info {
```

```
modeSpecificInfo fdd : {
       pCPICH-UsageForChannelEst mayBeUsed,
       sttd-Indicator FALSE,
       sf-AndCodeNumber sf64 : 1,
       pilotSymbolExistence FALSE,
       tfci-Existence TRUE,
       positionFixedOrFlexible flexible,
       timingOffset 0
   }
tfcs normalTFCI-Signalling : complete : {
   ctfcSize ctfc4Bit : {
        {
            ctfc4 0
        {
            ctfc4 1
        {
            ctfc4 2
            ctfc4 3
            ctfc4 4
            ctfc4 5
            ctfc4 6
            ctfc4 8
            ctfc4 10
   }
fach-PCH-InformationList {
        {\tt transportFormatSet~commonTransChTFS}~:~\{
           tti tti10 : {
                {
                    rlc-Size fdd : {
                       octetModeRLC-SizeInfoType2 sizeType1 : 24
                    numberOfTbSizeList {
                        zero : NULL,
                         one : NULL
                    logicalChannelList allSizes : NULL
                }
            },
            semistaticTF-Information {
               channelCodingType convolutional : half,
                rateMatchingAttribute 230,
                crc-Size crc16
        transportChannelIdentity 12,
        ctch-Indicator FALSE
        transportFormatSet commonTransChTFS : {
            tti tti10 : {
                    rlc-Size fdd : {
                        octetModeRLC-SizeInfoType2 sizeType1 : 15
                    numberOfTbSizeList {
                         zero : NULL,
                         one : NULL,
                         small: 2,
                         small: 3
                    },
```

```
logicalChannelList allSizes : NULL
                        semistaticTF-Information {
                            channelCodingType convolutional : half,
                            rateMatchingAttribute 220,
                            crc-Size crc16
                    },
                    transportChannelIdentity 13,
                    ctch-Indicator FALSE
                    transportFormatSet commonTransChTFS : {
                        tti tti10 : {
                                rlc-Size fdd : {
                                    octetModeRLC-SizeInfoType2 sizeType2 : 3
                                numberOfTbSizeList {
                                    zero : NULL,
                                     one : NULL
                                logicalChannelList allSizes : NULL
                        semistaticTF-Information {
                           channelCodingType turbo : NULL,
                            rateMatchingAttribute 130,
                            crc-Size crc16
                    transportChannelIdentity 14,
                    ctch-Indicator FALSE
            pich-Info fdd : {
                channelisationCode256 2,
                pi-CountPerFrame e18,
                sttd-Indicator FALSE
       }
   }
SysInfoType7
Analyzed Text:
    modeSpecificInfo fdd : {
       ul-Interference -100
   prach-Information-SIB5-List {
   prach-Information-SIB6-List {
SysInfoType11
    sib12indicator TRUE,
   measurementControlSysInfo {
       use-of-HCS hcs-not-used : {
            cellSelectQualityMeasure cpich-RSCP : {
                intraFreqMeasurementSysInfo {
                    intraFreqMeasurementID 1,
                    intraFreqCellInfoSI-List {
                        removedIntraFreqCellList removeAllIntraFreqCells : NULL,
                        newIntraFreqCellList {
                                intraFreqCellID 0,
                                    cellIndividualOffset 0,
                                    modeSpecificInfo fdd : {
                                        primaryCPICH-Info {
                                            primaryScramblingCode 100
                                        readSFN-Indicator TRUE,
                                        tx-DiversityIndicator FALSE
```

```
cellSelectionReselectionInfo {
                    q-OffsetS-N 0,
                    maxAllowedUL-TX-Power 33,
                    modeSpecificInfo fdd : {
                       q-QualMin -20,
                        q-RxlevMin -58
                    }
                }
           }
        },
{
            intraFreqCellID 1,
            cellInfo {
                cellIndividualOffset 0,
                modeSpecificInfo fdd : {
                    primaryCPICH-Info {
                        primaryScramblingCode 150
                    readSFN-Indicator TRUE,
                    {\tt tx-DiversityIndicator\ FALSE}
                cellSelectionReselectionInfo {
                    q-OffsetS-N 0,
                    maxAllowedUL-TX-Power 33,
                    modeSpecificInfo fdd : {
                        q-QualMin -20,
                        q-RxlevMin -58
                    }
                }
           }
        },
{
            intraFreqCellID 2,
            cellInfo {
                cellIndividualOffset 0,
                modeSpecificInfo fdd : {
                    primaryCPICH-Info {
                        primaryScramblingCode 200
                    readSFN-Indicator TRUE,
                    tx-DiversityIndicator FALSE
                },
                cellSelectionReselectionInfo {
                    q-OffsetS-N 0,
                    maxAllowedUL-TX-Power 33,
                    modeSpecificInfo fdd : {
                        q-QualMin -20,
                        q-RxlevMin -58
                    }
                }
           }
        },
{
            intraFreqCellID 3,
            cellInfo {
                cellIndividualOffset 0,
                modeSpecificInfo fdd : {
                   primaryCPICH-Info {
                        primaryScramblingCode 250
                    readSFN-Indicator TRUE,
                    tx-DiversityIndicator FALSE
                },
                cellSelectionReselectionInfo {
                    q-OffsetS-N 0,
                    maxAllowedUL-TX-Power 33,
                    modeSpecificInfo fdd : {
                        q-QualMin -20,
                        q-RxlevMin -58
               }
          }
       }
intraFreqMeasQuantity {
   filterCoefficient fc0,
```

modeSpecificInfo fdd : {

```
intraFreqMeasQuantity-FDD cpich-RSCP
                     intraFreqReportingQuantityForRACH {
                        sfn-SFN-OTD-Type noReport,
                        modeSpecificInfo fdd : {
                             \verb"intraFreqRepQuantityRACH-FDD" no Report
                     },
                    maxReportedCellsOnRACH noReport,
                     reportingInfoForCellDCH {
                         intraFreqReportingQuantity {
                             activeSetReportingQuantities {
                                 sfn-SFN-OTD-Type noReport,
                                 cellIdentity-reportingIndicator TRUE,
                                 {\tt cellSynchronisationInfoReportingIndicator\ FALSE,}
                                 modeSpecificInfo fdd : {
                                     cpich-Ec-N0-reportingIndicator FALSE,
                                     cpich-RSCP-reportingIndicator TRUE,
                                     {\tt pathloss-reportingIndicator}\ {\tt FALSE}
                             monitoredSetReportingQuantities {
                                 sfn-SFN-OTD-Type noReport,
                                 cellIdentity-reportingIndicator TRUE,
                                 {\tt cellSynchronisationInfoReportingIndicator\ FALSE,}
                                 modeSpecificInfo fdd : {
                                     cpich-Ec-N0-reportingIndicator FALSE,
                                     cpich-RSCP-reportingIndicator TRUE,
                                     pathloss-reportingIndicator FALSE
                             }
                         measurementReportingMode {
                             measurementReportTransferMode acknowledgedModeRLC,
                             periodicalOrEventTrigger eventTrigger
                         reportCriteria intraFreqReportingCriteria : {
                             eventCriteriaList {
                                 {
                                     event ela : {
                                         triggering {\tt Condition} \ active {\tt SetAndMonitoredSetCells},
                                          reportingRange 5,
                                          w 1,
                                         reportDeactivationThreshold t3,
                                         reportingAmount ra-Infinity,
                                         reportingInterval ri4
                                     hysteresis 0,
                                     timeToTrigger ttt640,
                                     {\tt reportingCellStatus\ withinActiveAndOrMonitoredUsedFreq:e3}
                            }
                       }
                   }
               }
           }
        }
    }
SysInfoType12
    measurementControlSysInfo {
        use-of-HCS hcs-not-used : {
            cellSelectQualityMeasure cpich-RSCP : {
                intraFreqMeasurementSysInfo {
                     intraFreqMeasurementID 1,
                     intraFreqCellInfoSI-List
                         removedIntraFreqCellList removeNoIntraFreqCells : NULL,
                         newIntraFreqCellList {
                             {
                                 intraFreqCellID 0,
                                 cellInfo {
                                     cellIndividualOffset 0,
                                     modeSpecificInfo fdd : {
                                         primaryCPICH-Info {
                                             primaryScramblingCode 100
```

```
readSFN-Indicator TRUE,
             tx-DiversityIndicator FALSE
         cellSelectionReselectionInfo {
             q-OffsetS-N 0,
             maxAllowedUL-TX-Power 33,
             modeSpecificInfo fdd : {
                 q-QualMin -20,
                 q-RxlevMin -58
         }
     }
 },
{
     intraFreqCellID 1,
     cellInfo {
         cellIndividualOffset 0,
         modeSpecificInfo fdd : {
             primaryCPICH-Info {
                 primaryScramblingCode 150
             readSFN-Indicator TRUE,
             tx-DiversityIndicator FALSE
         cellSelectionReselectionInfo {
             q-OffsetS-N 0,
             maxAllowedUL-TX-Power 33,
             modeSpecificInfo fdd : {
                 q-QualMin -20,
                 q-RxlevMin -58
         }
     }
     intraFreqCellID 2,
     cellInfo {
         cellIndividualOffset 0,
         modeSpecificInfo fdd : {
             primaryCPICH-Info {
                primaryScramblingCode 200
             readSFN-Indicator TRUE,
             tx-DiversityIndicator FALSE
         },
         cellSelectionReselectionInfo {
             q-OffsetS-N 0,
             maxAllowedUL-TX-Power 33,
             modeSpecificInfo fdd : {
                 q-QualMin -20,
                 q-RxlevMin -58
             }
         }
    }
     intraFreqCellID 3,
     cellInfo {
         cellIndividualOffset 0,
         modeSpecificInfo fdd : {
             primaryCPICH-Info {
                 primaryScramblingCode 250
             readSFN-Indicator TRUE,
             tx-DiversityIndicator FALSE
         cellSelectionReselectionInfo {
             q-OffsetS-N 0,
             maxAllowedUL-TX-Power 33,
             modeSpecificInfo fdd : {
                 q-QualMin -20,
                 q-RxlevMin -58
}
             }
```

```
intraFreqMeasQuantity {
                     filterCoefficient fc0,
                     modeSpecificInfo fdd : {
                          intraFreqMeasQuantity-FDD cpich-RSCP
                  intraFreqReportingQuantityForRACH {
                     sfn-SFN-OTD-Type noReport,
                     modeSpecificInfo fdd : {
                          intraFreqRepQuantityRACH-FDD noReport
                  maxReportedCellsOnRACH noReport,
                  reportingInfoForCellDCH {
                     intraFreqReportingQuantity {
                          activeSetReportingQuantities {
                              sfn-SFN-OTD-Type noReport
                              cellIdentity-reportingIndicator TRUE,
                              cellSynchronisationInfoReportingIndicator FALSE,
                              modeSpecificInfo fdd : {
                                  cpich-Ec-N0-reportingIndicator FALSE,
                                  cpich-RSCP-reportingIndicator TRUE,
                                  pathloss-reportingIndicator FALSE
                          },
                          monitoredSetReportingQuantities {
                             sfn-SFN-OTD-Type noReport,
                              cellIdentity-reportingIndicator TRUE,
                              cellSynchronisationInfoReportingIndicator FALSE,
                              modeSpecificInfo fdd : {
                                  cpich-Ec-N0-reportingIndicator FALSE,
                                  cpich-RSCP-reportingIndicator TRUE,
                                  pathloss-reportingIndicator FALSE
                              }
                          }
                     },
                     measurementReportingMode {
                          {\tt measurementReportTransferMode} \ {\tt acknowledgedModeRLC},
                          periodicalOrEventTrigger eventTrigger
                     reportCriteria intraFreqReportingCriteria : {
                          eventCriteriaList {
                                  event ela : {
                                      triggeringCondition activeSetAndMonitoredSetCells,
                                      reportingRange 5,
                                      w 1.
                                      reportDeactivationThreshold t3,
                                      reportingAmount ra-Infinity,
                                      reportingInterval ri4
                                  },
                                  hysteresis 0,
                                  timeToTrigger ttt0,
                                  reportingCellStatus withinActiveAndOrMonitoredUsedFreq : e3
                              }
} }
                        }
```

Annex B (informative): Change history

| Meeti ng- | Doc-1st-Level | CR | Rev | Subject | Cat | Version- Current | Version -New | Doc-2nd- Level |
|---------------|---------------|-----|-----|---|-----|---------------------|-----------------|-------------------|
| 1st- Level | | | | | | | | |
| TP-08 | | | | Approval of the specification | | 2.0.0 | 3.0.0 | |
| TP-09 | TP-000131 | 001 | | RRC Message Contents: RLCSize | С | 3.0.1 | 3.1.0 | T1-000190 |
| TP-09 | TP-000131 | 002 | | RRC Message Contents: RLCParam | С | 3.0.1 | 3.1.0 | T1-000191 |
| TP-09 | TP-000131 | 003 | | RRC Message Contents: PCPreamble | С | 3.0.1 | 3.1.0 | T1-000192 |
| TP-09 | TP-000131 | 004 | | RRC Message Contents: RBIdentity | С | 3.0.1 | 3.1.0 | T1-000193 |
| TP-09 | TP-000131 | 005 | | RRC Message Contents: TrCHParam | С | 3.0.1 | 3.1.0 | T1-000194 |
| TP-09 | TP-000131 | 006 | | RRC Message Contents: UECapability | С | 3.0.1 | 3.1.0 | T1-000195 |
| TP-09 | TP-000131 | 007 | | RRC Message Contents: RBMapping | С | 3.0.1 | 3.1.0 | T1-000196 |
| TP-09 | TP-000131 | 800 | | RRC Message Contents: PagingCause | С | 3.0.1 | 3.1.0 | T1-000197 |
| TP-09 | TP-000131 | 009 | | RRC Message Contents: CipheringAndIntegrity | С | 3.0.1 | 3.1.0 | T1-000198 |
| TP-09 | TP-000131 | 010 | | RRC Message Contents: RLCInfo | С | 3.0.1 | 3.1.0 | T1-000199 |
| TP-09 | TP-000131 | 011 | | RRC Message Contents: CompressedMode | С | 3.0.1 | 3.1.0 | T1-000200 |
| | TP-000131 | 012 | | RRC Message Contents: SIB | С | 3.0.1 | 3.1.0 | 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-09 | 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-09 | TP-000131 | 020 | | TDD Single mode | F | 3.0.1 | 3.1.0 | T1-000220 |
| | TP-000215 | 021 | | Common generic procedure for AS testing | В | 3.1.0 | 3.2.0 | T1-000294 |
| TP-10 | TP-000215 | 022 | | Requirements for the system simulator for support of Tcell parameter | F | 3.1.0 | 3.2.0 | T1-000303 |
| TP-10 | TP-000215 | 023 | | Minimum Performance Levels | F | 3.1.0 | 3.2.0 | T1-000306 |
| TP-10 | 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-10 | TP-000215 | 026 | | Application of integrity mode protection to signalling message by default | F | 3.1.0 | 3.2.0 | T1-000296 |
| TP-10 | 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-12 | TP-010118 | 042 | | Adding section for radio bearer configurations intended for functional testing | D | 3.3.0 | 3.4.0 | T1-010210 |
| | 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 | T1-010212 |
| TP-12 | TP-010118 | 045 | | Updates to clause 7.4 | F | 3.3.0 | 3.4.0 | T1-010213 |
| | 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 | 3.5.0 | T1-010275 |
| | TP-010215 | 049 | | Editorial modification for References | F | 3.4.0 | 3.5.0 | T1-010276 |
| | TP-010215 | 050 | | Some corrections in clause 5 | F | 3.4.0 | 3.5.0 | T1-010277 |
| | TP-010215 | 051 | | Update to Scope Statement | F | 3.4.0 | 3.5.0 | T1-010278 |
| | TP-010215 | 052 | | Clause 6.10 Definition of RB configurations, TDD parameters | | 3.4.0 | 3.5.0 | T1-010279 |
| | TP-010215 | 053 | | Updates to clause 6.1, clause 7.4 and clause 9 | F | 3.4.0 | 3.5.0 | T1-010280 |
| TP-13 | TP-010215 | 054 | | Clause 6.1: Default radio conditions for Signalling tests | F | 3.4.0 | 3.5.0 | T1-010281 |

| Meeti ng- 1st- Level | Doc-1st-Level | CR | Rev | Subject | Cat | Version- Current | Version -New | Doc-2nd- Level |
|-------------------------------|---------------|-----|-----|--|-----|---------------------|-----------------|-------------------|
| | TP-010215 | 055 | | Correction of Radio Bearer Configurations for FDD Mode | F | 3.4.0 | 3.5.0 | T1-010282 |
| | TP-010215 | 056 | | Correction of Radio Bearer Configurations for TDD Mode | F | 3.4.0 | 3.5.0 | T1-010283 |
| | 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-13 | 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 TDD Mode | F | 3.4.0 | 4.0.0 | T1-010288 |
| TP-13 | TP-010215 | 062 | | Introduction of typical radio parameters for 1.28 McpsTDD | F | 3.4.0 | 4.0.0 | T1-010289 |
| TP-13 | TP-010215 | 063 | | Clause 6.11 RBs for RLC and PDCP testing | F | 3.4.0 | 3.5.0 | T1-010290 |
| TP-14 | TP-010285 | 065 | 1 | Correction to 6.1 Contents of System Information Blocks | Α | 4.0.0 | 4.1.0 | T1-010475 |
| TP-14 | TP-010285 | 067 | 1 | Corrections to clause 6.1, 7.4 and 9 | Α | 4.0.0 | 4.1.0 | T1-010473 |
| TP-14 | TP-010258 | 069 | | Reference Radio Conditions | Α | 4.0.0 | 4.1.0 | T1-010461 |
| TP-14 | 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-14 | TP-010258 | 079 | | Update of clause 7.4 and 6.10 | Α | 4.0.0 | 4.1.0 | T1-010471 |
| TP-14 | 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) | Α | 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-15 | TP-020038 | 087 | | Update of system reference configurations and default messages (Rel-4) | А | 4.1.0 | 4.2.0 | T1-020100 |
| TP-15 | TP-020038 | 089 | | Corrections to 34108-410 | Α | 4.1.0 | 4.2.0 | T1-020102 |
| TP-15 | TP-020038 | 091 | | Introduction of new Reference RABs (Rel-4) | Α | 4.1.0 | 4.2.0 | T1-020195 |
| TP-15 | 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 function (Rel-4) | Α | 4.1.0 | 4.2.0 | T1-020184 |
| | | | | Correction of CR implementation errors in clauses: 6.10.2.2 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 use 13.6 kbps SRB in RRC connection establishment TDD (3.84 Mcps and 1.28 Mcps) | F | 4.2.1 | 4.3.0 | T1-020289 |
| TP-16 | TP-020141 | 109 | | Correction to clause 7.3.3.4 RADIO BEARER SETUP message | А | 4.2.1 | 4.3.0 | T1-020291 |
| TP-16 | TP-020141 | 110 | | Change of RM attribute of DL:3.4 kbps SRBs for DCCH in for REL4 | А | 4.2.1 | 4.3.0 | T1-020292 |
| | 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-020141 | 115 | | Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB | А | 4.2.1 | 4.3.0 | T1-020297 |
| | 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-020141 | 119 | | Section 9.1 Default message contents for TDD (3.84 Mcps and 1.28 Mcps) R4 | F | 4.2.1 | 4.3.0 | T1-020301 |
| 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 |

History

| Document history | | | | | |
|------------------|----------------|-------------------------|--|--|--|
| V4.0.0 | September 2001 | Publication | | | |
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