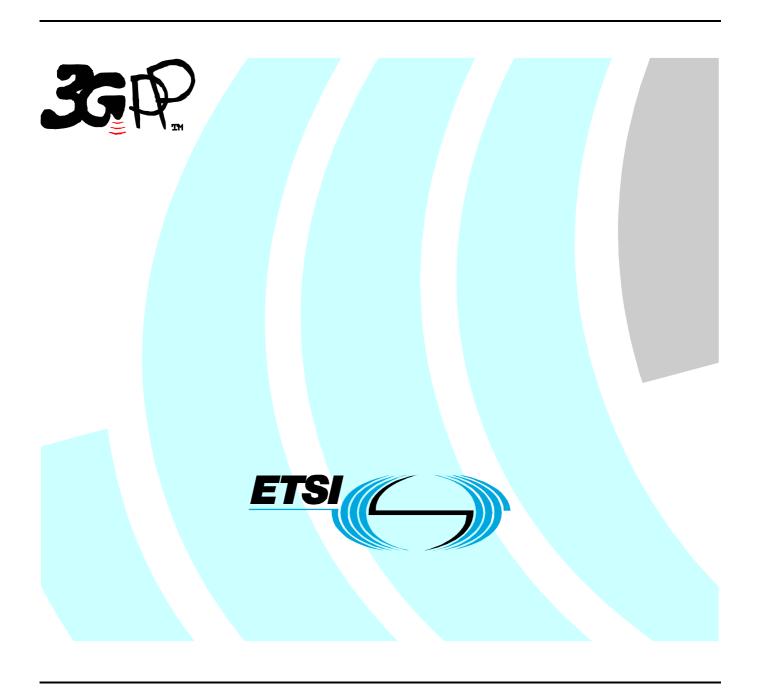
# ETSI TS 134 108 V3.10.0 (2002-12)

Technical Specification

Universal Mobile Telecommunications System (UMTS); Common test environments for User Equipment (UE) conformance testing (3GPP TS 34.108 version 3.10.0 Release 1999)



# Reference RTS/TSGT-0134108v3a0 Keywords UMTS

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

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#### **Foreword**

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

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

Version x.y.z

#### where:

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

#### Introduction

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

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

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

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

# 1 Scope

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

# 2 References

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

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

Telephone Network (PSTN)".

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

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)".
[30]	3GPP TS 25.133: "Requirements for support of radio resource management (FDD)".

# 3 Definitions and abbreviations

Non-access stratum

Occupied Bandwidth

#### 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

NAS

OBW

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

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

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	1	
RACH	1	

#### 4.2.1.2.3 Physical Channels

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.

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

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

#### 4.2.2 RF Performance

#### 4.2.2.1 Frequency of Operation

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

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

#### 4.2.2.2 Power Level Setting Accuracy

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

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

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

#### 4.2.2.3 Uplink Power Control

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

#### 4.2.2.4 Uplink Signal Handling

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

#### 4.2.2.5 Uplink Sensitivity

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

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

#### 4.2.3 Timers Tolerances

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

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

Where t<sub>delta</sub> 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 and the raster spacing is 200KHz. Similarly the highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2,6 MHz.

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.

#### 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

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

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

#### 5.2 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, or both UTRAN/TDD SYSTEM and UTRAN/TDD + GERAN SYSTEM. Configuration 2 is for test cases which need two S\_CCPCH or two PRACH. Configuration 3 is for inter-RAT handover test cases.

_	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_COUNT	1
- SIB_REP	16
- SIB_POS	2
- SIB_POS offset info	Not Present – use default
- SIB and SB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 1
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	20
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 3
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	52
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	38
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB and SB type	System Information Type 5

#### Contents of Scheduling Block 1 (FDD)

Defendance to other social state of the state of	T
- 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	3,11
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	4
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB POS	36
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18
OID type OIDS OIIIY	Dystom miorination Type To

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

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	128
- SIB_POS	3
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB_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
- 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_COUNŤ	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 mismailen Type T
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG COUNT	3
- SIB_REP	64
- SIB POS	13
- SIB POS offset info	
- SIB OFF	2
- SIB_OFF	$\frac{1}{2}$
- SIB type SIBs only	System Information Type 12
- Scheduling information	System mismanen Type 12
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB REP	64
- SIB POS	54
- SIB_POS offset info	Not Present - use default
- SIB type SIBs only	System Information Type 14
- Scheduling information	System memation Type 11
- 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
- OID type OIDS OIIIY	Oystem information Type To

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

- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	0000 0000 0000 0000 0000 00012
- Mapping info	Not present
- Cell selection and reselection quality measure	(no data)
- CHOICE mode	TDD
- Sintrasearch	10 dB
- Sintersearch	10 dB
- SsearchHCS	Not present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not present
- Slimit,ShearchRAT	Not Present
- Qrxleymin	-103 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T <sub>barred</sub>	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

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

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

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

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

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
	INOL PIESEIIL
- 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
	I   FDD
- CHOICE Mode	
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	Comgaroa
	20 mg
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Tronnal
	Complete recentiquestion
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
<ul> <li>Power offset information</li> </ul>	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
	0 dB
- Power offset Pp-m	1.
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature Gtart Index	7 (ASC#1)
- Assigned Sub-channel Number	(1111'B
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD

- Available signature Start Index - Available signature End Index - Assigned Sub-channel Number - ASC Setting - Available signature Start Index - Available signature Start Index - Available signature End Index - Assigned Sub-channel Number - ASS Setting - C-HOICE mode - Available signature Start Index - Available signature End Index - Available signature Start Index -		
- Assigned Sub-channel Number		0 (ASC#3)
- ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signature End Index - Assigned Sub-channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature	<ul> <li>Available signature End Index</li> </ul>	7 (ASC#3)
- ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Assigned Sub-channel Number - ASC Setting - ASC Setting - ASC Setting - ASC Setting - AVailable signature Start Index - Assigned Sub-channel Number - Available signature Start Index - Assigned Sub-channel Number - Persistence scaling factor - AC-to-ASC mapping - AC-t	- Assigned Sub-channel Number	::::=
- CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Index - Available signature Index - Available signatur	- ASC Setting	Not Present
- Available signature Start Index	- ASC Setting	
- Available signature End Index	- CHOICE mode	FDD
- Available signature End Index	- Available signature Start Index	0 (ASC#5)
- Assigned Sub-channel Number		
- ASC Setting		1. ` ′
- ASC Setting - CHOICE mode - Available signature Start Index - Service Scaling factor - Persistence scaling fa		
- CHOICE mode		
- Available signature Start Index		FDD
- Available signature End Index		
- Assigned Sub-channel Number		
- Persistence scaling factor		
- Persistence scaling factor		
- Persistence scaling factor		0 0 (for ASC#2)
- Persistence scaling factor		
- Persistence scaling factor		,
Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC	<u> </u>	
- Persistence scaling factor		
- AC-to-ASC mapping table - AC-to-ASC mapping		· ·
- AC-to-ASC mapping	· · · · · · · · · · · · · · · · · · ·	0.9 (101 A30#1)
- AC-to-ASC mapping		6 (400-9)
- AC-to-ASC mapping		,
- AC-to-ASC mapping		
- AC-to-ASC mapping		
- AC-to-ASC mapping		
- AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01 min - NB01 min - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - STTD indicator - Spreading factor - Pilot symbol existence - TFCI existence - TFCS - CHOICE TFCS Is gnalling - TTCI Field 1 information - CHOICE TTCS representation - CHOICE TTCS complete reconfiguration information - CHOICE TTCS iz representation - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information		` '
- CHOICE mode		
- Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary Scrambling code - Secondary scrambling code - Serondary Scrambling code - Serondary Scrambling code - STTD indicator - COde number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE TFCS representation - TFCS information - Power offset information - CTFC information - TCFC information - CTFC information - Power offset information - TCFC information - Power offset information - Not Present - Not Present - Absence of this IE is equivalent to default value "TRUE" - Normal - Complete reconfiguration - TFC information - TCFC information - TCFC information - TCFC information - TCFC information - Power offset information - TCFC information - Power offset information - Not Present	•	
- Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary Scrambling code - Setton dear CCPCH info - CHOICE mode - Setton with a single factor - Code number - Pilot symbol existence - TFCI existence - Timing offset - Timing offset - Timing offset - TFCS - CHOICE TFCI signalling - TFCS - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE TFCS representation - TFCS complete reconfiguration - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - Power offset information - Not Present - Not Present - Absence of this IE is equivalent to default value "TRUE" - Normal - Complete reconfiguration - Tower offset information - Not Present - Tower offset information - Power offset information - CTFC information - Power offset information - Power offset information - Not Present		
- PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - Socondary scrambling code - Socondary scrambling code - Socondary scrambling code - Socondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - Timing offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - Not Present		
- Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary Scrambling code - STTD indicator - CHOICE mode - Secondary Scrambling code - Secondary Scrambling code - STTD indicator - Code number - Spreading factor - Code number - Pilot symbol existence - FALSE - Fixed or Flexible position - Fixed or Flexible position - Timing offset - Timing offset - Timing offset - TIMING offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFC Size - CTFC information - Power offset information - CTFC information - Power offset information		-10
- Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - CHOICE mode - Secondary CCPCH info - CHOICE mode - StTD indicator - Secondary Scrambling code - STTD indicator - FALSE - Spreading factor - Cide umber - Pilot symbol existence - TFCI existence - TFCI existence - TFCS - CHOICE TFCI signalling - TFCS - CHOICE TFCI signalling - TFCS - CHOICE TFC Size - CTFC information - CHOICE TFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present - Time offset information - Power offset information - Not Present - Time offset information - Power offset information		0.40
- RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary Scrambling code - Setondary Scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - TFCS - TECS - CHOICE TFCI signalling - TFCS complete reconfiguration information - CHOICE TFCS representation - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - Power offset information - Power offset information - Power offset information - Not Present - Not Present - Absence of this IE is equivalent to default value "Flexible" Normal - Complete reconfiguration information - CHOICE TFC Size - CTFC information - CTFC information - Power offset information - Not Present - Not Present - Absence of this IE is equivalent to default value "Flexible" Not Present - Absence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequence of this IE is equivalent to default value 0 - The sequ	1	
- Mmax		4
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Serondary scrambling code - Serondary scrambling code - StTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - TFCI existence - Timing offset - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - Not Present - Not Present - Absence of this IE is equivalent to default value "TRUE" - Not Present - Absence of this IE is equivalent to default value "TRUE" - Not Present - Absence of this IE is equivalent to default value "TRUE" - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Complete reconfiguration - Not Present - ALSE - O - O - O - O - O - O - O - O - O - O		
- NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary Scrambling code - Secondary scrambling code - Secondary scrambling code - Serondary scrambling code - Strip indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - Timing offset - Timing offset - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFC Size - CTFC information - CHOICE CTFC Size - CTFC information - CTFC information - CTFC information - Power offset information - Not Present - Not Present - Absence of this IE is equivalent to default value "TRUE" Not Present - Absence of this IE is equivalent to default value 0 - TTFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE CTFC Size - CTFC information - Power offset information - Not Present		
- AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - FICI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFC Size - CTFC information - CHOICE CTFC Size - CTFC information - Power offset information - CHOVER offset information - Power offset information		
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - Timing offset - Timing offset - Timing offset - TFCS - CHOICE TFCI signalling - TFCS complete reconfiguration - CHOICE CTFC Size - CTFC information - CHOICE CTFC Size - CTFC information - CTFCS information - CTFCS information - CTFCS information - CTFC information - CTFC information - Power offset information - Not Present - TFCS - CTFC information - CTFC information - CTFC information - CTFC information - Power offset information		10 Slot
- STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - TFCS - CHOICE TFCI signalling - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFCs information - Power offset information - Not Present - Absence of this IE is equivalent to default value "Flexible" Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - Secondary CCPCH system information - FALSE - DD - Not Present - Absence of this IE is equivalent to default value "Flexible" Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - Complete reconfiguration - Secondary CCPCH information - FALSE - FDD - Not Present - Absence of this IE is equivalent to default value "Flexible" Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - Complete reconfiguration - Secondary CCPCH information - CHOICE CTFC Size - CTFC information - CHOICE CTFC Size - CTFC information - Power offset information - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - TFCS complete reconfiguration - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal		
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - StrD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - TFCS - CHOICE TFCI signalling - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Secondary CCPCH system information - FDD Not Present - FDD Not Present - FALSE - CALSE - Not Present - Absence of this IE is equivalent to default value "TRUE" Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - Complete reconfiguration - Complete reconfiguration - Not Present - Size - Abit - CTFC information - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - Secondary CCPCH information - CHOICE TFC Size - CTFC information - CHOICE CTFC Size - CTFC infor		
- Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - CTFC information - CTFC information - CTFC information - Power offset inform		
- Secondary CCPCH info  - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCS Field 1 information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - CTFC information - CTFC information - CTFC information - Power offset information - Not Present - FDD - Not Present - FALSE - A4 - CHOICE Is is equivalent to default value "TRUE" - Not Present - Absence of this IE is equivalent to default value "Flexible" - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Complete reconfiguration - Vot Present - Vot Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Vot Present - Vot Present - Absence of this IE is equivalent to default value "TRUE" - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Vot Present - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Vot Present - Absence of this IE is equivalent to default value 0 - Vot Present - Vot Presen		0
- CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - Timing offset - Timing offset - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present - Absence of this IE is equivalent to default value "Flexible" Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) Normal - Complete reconfiguration - Vot Present - Vot Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Vot Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Vot Present - Absence of this IE is equivalent to default value "Flexible" - Not Present - Absence of this IE is equivalent to default value "Flexible" - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Vot Present - Absence of this IE is equivalent to default value 0 - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Vot Present - Absence of this IE is equivalent to default value "Flexible" - Not Present - Absence of this IE is equivalent to default value 0 - (This IE is equivalent to default value 0 - (This IE is equivalent to default value 0 - (This IE is equivalent to default value 0 - (This IE is equivalent to default value 0 - (This IE is equivalent to default value 0 - (This IE is equivalent to default value 0		
- Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence  - Fixed or Flexible position - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present - CTFC information - Not Present - CALSE - ALSE -		500
- STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE CTFC Size - CTFC information - Power offset information - Power offset information - CTFC information - Power offset information - Not Present - KALSE - Advance - FALSE - CHALSE - Advance - FALSE - Not Present - Tresent - Absence of this IE is equivalent to default value "Flexible" - Not Present - Absence of this IE is equivalent to default value o - (This IE is repeated for TFC number for PCH and FACH.) - Normal - Complete reconfiguration - Complete reconfiguration - A bit - O - O - O - O - O - O - O - O - O - O		
- Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE CTFC Size - CTFC information - CHOICE CTFC Size - CTFC information - Power offset information - Power o		
- Code number - Pilot symbol existence - TFCI existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present  1  FALSE  Not Present  Absence of this IE is equivalent to default value "Flexible"  Not Present  CTFC information - CHOICE TFC Signalling - Complete reconfiguration - Complete reconfiguration - Vot Present - TRUE"  Not Present - Absence of this IE is equivalent to default value 0  (This IE is repeated for TFC number for PCH and FACH.)  Normal - Complete reconfiguration - Complete reconfiguration - Vot Present - Vot Presen		
- Pilot symbol existence - TFCI existence - TFCI existence  - Fixed or Flexible position - Timing offset  - Timing offset  - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present		
- TFCI existence  - Fixed or Flexible position  - Timing offset  - Timing offset  - TFCS  - CHOICE TFCI signalling  - TFCS complete reconfiguration information  - CHOICE CTFC Size  - CTFC information  - Power offset information  - Not Present  Not Present  Not Present  Not Present  Not Present		
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- Fixed or Flexible position  - Timing offset  - Timing offset  - TrCS  - CHOICE TFCI signalling - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present - Not Present - CTFC information - Not Present	- TFCI existence	
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- Timing offset  Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.)  Normal  - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present	- Fixed or Flexible position	
Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.)  Normal  TFCI Field 1 information  CHOICE TFCS representation  TFCS complete reconfiguration information  CHOICE CTFC Size  CTFC information  Power offset information  TCFC information  Not Present  Not Present		·
- TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Not Present	- Timing offset	
- CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Power offset information - Power offset information - Power offset information - Not Present - Not Present		
- TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Power offset information - Power offset information - Not Present - Not Present		
- CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information - Power offset information - Not Present - Not Present	- CHOICE TFCI signalling	Normal
- TFCS complete reconfiguration information - CHOICE CTFC Size 4 bit - CTFC information 0 - Power offset information Not Present - CTFC information 1 - Power offset information Not Present		
- CHOICE CTFC Size 4 bit - CTFC information 0 - Power offset information Not Present - CTFC information 1 - Power offset information Not Present		Complete reconfiguration
- CTFC information 0 - Power offset information Not Present - CTFC information 1 - Power offset information Not Present		
<ul> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>Not Present</li> <li>Not Present</li> </ul>		4 bit
- CTFC information 1 - Power offset information Not Present		0
- Power offset information Not Present		Not Present
- CIFC information [2		
	- CIFC information	<u> </u> 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 Net Breezest
- Power offset information	Not Present
- CTFC information - Power offset information	6 Not Present
- CTFC information	8
- Power offset information	Not Present
- FACH/PCH information	THOU TOO ONE
- 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	1
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information - Transmission time interval	10 ms
- Transmission time interval - Type of channel coding	Convolutional
- Type of charmer coding - Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
Number of Transport blocks     Number of Transport blocks	1 2
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	/ NEE
- 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 - Dynamic Transport format information	Common transport channels
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	
- 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 - CTCH indicator	14 (for FACH) FALSE
- PICH indicator	I ALOL
- CHOICE mode	FDD
- 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 (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
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0 Not Brooms
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	TDD
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List - CHOICE SF	SE0
- Choice SF - Channelisation Code List	SF8
- Channelisation Code List - Channelisation Code	8/1
- Channelisation Code - Channelisation Code	8/2
- Channelisation Code	8/3
- 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
- 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	(4.00(0)
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null (ASC#1)
- ASC Settings	(ASC#1)
- CHOICE mode - Available Channelisation codes indices	
- Available Channelisation codes indices - CHOICE subchannel size	Not Present (Default all) Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	(ASC#2)
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
	ı

- TFS

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- Available Channelisation codes indices
                                                Not Present (Default all)
  - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
                                                (ASC#4)
 - ASC Settings
  - CHOICE mode
                                                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
                                                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)
                                                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
- 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
 - Common timeslot info
  - 2<sup>nd</sup> interleaving mode
                                                Frame
  - TFCI coding
                                                Reference clause 6.10 Parameter Set
  - Puncturing limit
                                                Reference clause 6.10 Parameter Set
  - Repetition period
                                                Not Present (MD "1")
  - Repetition length
                                                Not present
 - Individual timeslot info
   - Timeslot number
  - TFCI existence
                                                Reference clause 6.10 Parameter Set
  - Midamble Shift and burst type
    - CHOICE Burst Type
                                                Type 1
                                                Default midamble
    - Midamble Allocation Mode
    - Midamble configuration burst type 1 and 3
                                                Not Present
    - Midamble Shift
 - Code List
  - Channelisation Code
                                                Reference clause 6.10 Parameter Set
- TFCS
                                                (This IE is repeated for TFC number for PCH and
                                                FACH.)
 -CHOICE TFCI signalling
 - Normal
 - TFCI Field 1 information
  - CHOICE TFCS representation
                                                Complete reconfiguration
  - TFCS complete information
  - CHOICE CTFC Size
                                                Number of bits used must be enough to cover all
                                                combinations of CTFC from clause 6.10.
   - CTFC information
                                                Reference clause 6.10 Parameter Set
   - Power offset information
                                                Not Present
- FACH/PCH information
```

(PCH)

- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	Common transport channels
- 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	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
- 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
- TFS	(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	TDD
- 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
- 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	13 (for FACH)
- CTCH indicator - TFS	FALSE
- CHOICE Transport channel type	(FACH) Common transport channels
- Dynamic Transport format information	Common transport channels
- 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
- 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
- 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	14 (for FACH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE mode	TDD
- Timeslot number	0
- Midamble shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Shift	0
- Channelisation code	16/16
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4 4
- N <sub>GAP</sub> - N <sub>PCH</sub>	2
- NPCH - CBS DRX Level 1 information	Not Present
ODO DITA LEVEL I IIIIOIIIIation	INOUT TOOCHU

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

- PICH power offset	-5 dB
- CHOICE Mode	FDD

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

Contents of System Information Block type 6 in connected mode (similar to SIB type 5) (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
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
<ul> <li>Number of TB and TTI List</li> </ul>	Reference clause 6.10 Parameter Set
<ul> <li>Number of Transport blocks</li> </ul>	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- 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
<ul> <li>Available Channelisation codes indices</li> </ul>	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)

- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- Persistence scaling factors
- 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
- 2<sup>nd</sup> interleaving mode
- TFCI coding
- Puncturing limit
- Repetition periodRepetition length
- Individual timeslot info
- Timeslot number
- TFCI existence
- Midamble Shift and burst type
- CHOICE Burst Type
- Midamble Allocation Mode
- Midamble configuration burst type 1 and 3
- Midamble Shift
- Code List
- Channelisation Code
- TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- FACH/PCH information
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List

TDD

Not Present (Default all)

Size1 null (ASC#3) TDD

Not Present (Default all)

Size1 null (ASC#4) TDD

Not Present (Default all)

Size1 null (ASC#5) TDD

Not Present (Default all)

Size1 null (ASC#6) TDD

Not Present (Default all)

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

Not Present (MD "Frame")

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Not Present (MD "1")

Not present

1

Reference clause 6.10 Parameter Set

Type 1

Default midamble

4

Not Present

Reference clause 6.10 Parameter Set

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

Complete reconfiguration

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

Not Present

(PCH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- Transmission Time Interval
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- CTCH indicator
- PICH info
- CHOICE mode
- Timeslot number
- Midamble shift and burst type
- CHOICE Burst Type
- Midamble Shift
- Channelisation code
- Repetition period/length
- Offset
- Paging indicator length
- N<sub>GAP</sub>
- N<sub>PCH</sub>
- CBS DRX Level 1 information

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set ALI

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

Reference clause 6.10 Parameter Set 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

ALL

Reference clause 6.10 Parameter Set 14 (for FACH)

14 (for FACH) FALSE FALSE

TDD

Type 1 0 16/16 64/2 0 4

Not Present

# Contents of System Information Block type 7 (FDD)

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

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

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

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

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

- SIB12 indicator
- FACH measurement occasion info
- Measurement control system information
- Use of HCS
- Cell selection and reselection quality 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
- 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
- Intra-frequency cell id
- Cell info
- Intra-frequency cell id
- Cell info
- Intra-frequency cell id
- Cell info
- Cells for measurement
- Intra-frequency measurement quantity
- Filter coefficient
- CHOICE mode
- Measurement quantity
- Intra-frequency reporting quantity for RACH Reporting
- Maximum number of reported cells on RACH
- Reporting information for state CELL\_DCH

TRUE

Not Present

Not used CPICH RSCP

Not Present

Absence of this IE is equivalent to default value 1

Not present

(This IE shall be ignored by the UE for SIB11)

1

Not present

Absence of this IE is equivalent to default value 0dB

Not Present FALSE

FDD

Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4

Not Present

**FALSE** 

Not Present

(The IE shall be absent as this is the serving cell)

2

Not present

Absence of this IE is equivalent to default value 0dB

Not present

TRUE FDD

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

in clause 6.1.4 Not Present

FALSE

Not present

For neigbouring cell, if HCS is not used and all the parameters in cell selection and re-selection info are

Default value, this IE is absent.

3

Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4

7

Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4

8

Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4

Not Present

Not present

Absence of this IE is equivalent to the default value 0

FDD

CPICH RSCP Not Present

Not Present

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

#### Mode

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

**FALSE** 

**TRUE** 

FDD

**FALSE** 

TRUE FALSE

**TRUE** 

TRUE

FDD

**FALSE** 

TRUE

**FALSE** 

Not Present

Acknowledged mode RLC

Event trigger

Intra-frequency measurement reporting criteria

3 kinds

1a

Not Present

Monitored set cells

5dB

Not Present

1.0

0.0

Not Present

Not Present

640

4000

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

3

1b

Active set cells Not Present

5dB

Not Present

1.0

0.0

Not Present

Not Present

Not Present 640

Not Present

Not Present

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

3

1c

Not Present

Not Present

Not Present

Not Present Not Present

0.0

Not Present

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
	used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system	
information	
- Inter-frequency cell info list	
- CHOICE Inter-frequency cell removal	Not present
	(This IE shall be ignored by the UE for SIB11)
- New inter-frequency cells	
- Inter frequency cell id	4
- Frequency info	500
- CHOICE mode	FDD
- UARFCN uplink(Nu)	Not present
	Absence of this IE is equivalent to apply the default
	duplex distance defined for the operating frequency
LIADEON downlink(Nld)	according to 25.101 Reference to table 6.1.2 for Cell 4
- UARFCN downlink(Nd) - Cell info	Reference to table 6.1.2 for Cell 4
- Cell info - Cell individual offset	Not propert
- Cell individual offset	Not present
- Reference time difference to cell	Absence of this IE is equivalent to default value 0dB
- Read SFN indicator	Not present FALSE
- CHOICE mode	FDD
- Primary CPICH info	FDD
- Primary scrambling code	Refer to clause titled "Default settings for cell No.4 (FDD)"
- I filliary scrainbilling code	in clause 6.1.4
- Primary CPICH Tx power	Not present
- TX Diversity Indicator	FALSE
- Cell Selection and Re-selection Info	Not present (same values as for serving cell applies)
- Inter frequency cell id	5
- Frequency info	Not Present
1 roquonoy milo	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4
	with the exception that value for Primary scrambling code
	shall be according to clause titled "Default settings for cell
	No.5 (FDD)" in clause 6.1.4
- Inter frequency cell id	6
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4
	with the exception that value for Primary scrambling code
	shall be according to clause titled "Default settings for cell
	No.6 (FDD)" in clause 6.1.4
- Cell for measurement	Not present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system	Not Present

# Contents of System Information Block type 11 (TDD)

information

- SIB 12 Indicator	IRUE	
- FACH measurement occasion info	Not Present	
- Measurement control system information		
- Use of HCS	Not used	
- Cell selection and reselection quality measure	(no data)	
- Intra-frequency measurement system		
information		
- Intra-frequency measurement identity	Not Present	
	Absence of this IE is equivalent to default value	
- Intra-frequency cell info list		

- CHOICE intra-frequency cell removal	Not present
	(This IE shall be ignored by the UE for SIB11)
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	Not present
5 ( ) ( ) ( )	Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH info - Cell parameters ID	Poterance clause 6.1 Default cattings for call
- Primary CCPCH TX power	Reference clause 6.1 Default settings for cell Not Present
- Timeslot list	Not Present
- Timeslot list - Timeslot number	Not Present
- Burst type	Not Present
- Cell Selection and Re-selection info	Not Present
Con Colocion and No colocion into	(The IE shall be absent as this is the serving cell)
- Cells for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	Not present
	Absence of this IE is equivalent to the default value 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
<ul> <li>Reporting information for state CELL_DCH</li> </ul>	
<ul> <li>Intra-frequency reporting quantity</li> </ul>	
<ul> <li>Reporting quantities for active set cells</li> </ul>	
<ul> <li>Cell synchronisation information reporting</li> </ul>	TRUE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	FALSE
- Cell synchronisation information reporting indicator	FALSE
	TRUE
- Cell identity reporting indicator     - CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting indicator	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	Event trigger
Reporting Mode	
-CHOICE report criteria	
- Intra-frequency measurement reporting	
criteria	
<ul> <li>Parameters required for each event</li> </ul>	
<ul> <li>Intra-frequency event identity</li> </ul>	1g
- Triggering 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	Not Proport
- Replacement activation threshold	Not Present
- Time to trigger - Amount of reporting	640 4
1 Autount of reporting	1'

- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used
	frequency
<ul> <li>Maximum number of reported cells</li> </ul>	3
- Inter-frequency measurement system	Not Present
information	
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system	Not Present
information	

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

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

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

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

# Contents of System Information Block type 12 in connected mode (similar to SIB type11) (TDD)

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell selection and reselection quality measure	(no data)
- Intra-frequency measurement system	
information	
- Intra-frequency measurement identity	Not Present
	Absence of this IE is equivalent to default value 1
- Intra-frequency measurement quantity	
- Filter coefficient	Not present
	Absence of this IE is equivalent to the default value 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	
<ul> <li>Intra-frequency reporting quantity</li> </ul>	
<ul> <li>Reporting quantities for active set cells</li> </ul>	
- SFN-SFN observed time difference	No report
reporting indicator	
- Cell synchronisation information reporting	TRUE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting	No report
indicator	

- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting indicator	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	Not i lesent
- Measurement Reporting mode  - Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger Reporting	Event trigger
Mode	Lvent trigger
-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	

# 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	TRUE
requirement	
- UE radio access TDD capability update	FALSE
requirement	

- System specific capability update requirement	Not Present
list	

# Contents of System Information Block type 14 (TDD)

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

# Contents of System Information Block type 16

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

# Contents of System Information Block type17 (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

<ul> <li>Idle mode PLMN identities</li> </ul>	
- 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
- 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
<ul> <li>Available signature Start Index</li> </ul>	0 (ASC#5)
<ul> <li>Available signature End Index</li> </ul>	7 (ASC#5)
<ul> <li>Assigned Sub-channel Number</li> </ul>	'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 (( 0.0 ((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	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
<ul><li>- Persistence scaling factor</li><li>- AC-to-ASC mapping table</li></ul>	0.9 (for ASC#7)
- AC-to-ASC mapping table	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	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   FALSE
- STTD indicator - 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	
- CHOICE CTFC Size	2 bit
- CTFC information	0
<ul> <li>Power offset information</li> </ul>	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	(POLI)
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information - RLC Size	240
- Number of TB and TTI List	Z7U
- Number of Transport blocks	0
	1
- Number of Transport blocks	
	1

- Semi-static Transport Format information	1
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	Convolutional   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
<ul> <li>Power offset information</li> </ul>	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- CHOICE Mode	FDD
- CHOICE Mode - CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	/ \
- Transmission time interval	10 ms
- Transmission time interval - Type of channel coding	Convolutional
- Type of channel coding - Coding Rate	
	220
- Rate matching attribute - CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
· · · · · · · · · · · · · · · · · · ·	
- CTCH indicator - TFS	FALSE (FACH)
	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information - RLC Size	260
- RLC Size - Number of TB and TTI List	360
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	40
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130

- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

<FFS>

Contents of System Information Block type 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	Trot procent
- 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
- 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
- TFCS addition information	Complete
- 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
	15
- Gain factor ßd	
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- 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
- ASC Setting	Not Present
	INOUT TOOCHE
- ASC Setting	

- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	1 (A30#3)
- ASC Setting	Not Present
- ASC Setting - ASC Setting	Not riesent
- CHOICE mode	EDD
	FDD (A 0.0 (1.7))
- 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 (( 4.00 ((0))
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
<ul> <li>Persistence scaling factor</li> </ul>	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
<ul> <li>Persistence scaling factor</li> </ul>	0.9 (for ASC#6)
<ul> <li>Persistence scaling factor</li> </ul>	0.9 (for ASC#7)
<ul> <li>AC-to-ASC mapping table</li> </ul>	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	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
- TITING OUSEL	30
- 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	Not Fresent
- TFS	(DCH)
_	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	240
- RLC Size	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	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

l Blour (	1
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
	Not Present
- Secondary scrambling code	
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
	0
- Timing offset	U
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
	0
- CTFC information	
- Power offset information	Not Present
- CTFC information	1
<ul> <li>Power offset information</li> </ul>	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
	100
- Number of TB and TTI List	
- Number of Transport blocks	0
<ul> <li>Number of Transport blocks</li> </ul>	1
<ul> <li>Number of Transport blocks</li> </ul>	2
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	7122
- Transmission time interval	10 ma
	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

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

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

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

# Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	
	Not present
- PRACH system information list	
- 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	, and the second
- CHOICE Gain Factors	Computed Cain Factor, reference TEC id-0
	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
-	·

	1
- 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 (6 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	C (A CO O)
- 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 - AC-to-ASC mapping	1 (AC14)
	0 (AC15) 31
- Primary CPICH DL TX power - Constant value	-10
- PRACH power offset	-10
- Power Ramp Step	3dB
- Preamble Retrans Max	4
	<b>4</b>
- RACH transmission parameters - Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	10 5101
- 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	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
<ul> <li>Power offset information</li> </ul>	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	l 1
- CHOICE Mode - CHOICE Logical Channel List	FDD ALL

- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- 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	0.54
- CHOICE CTFC Size	2 bit
- CTFC information	0 Not Drocout
- Power offset information	Not Present
- CTFC information	Net Present
- Power offset information - CTFC information	Not Present
	<del>-</del>
- Power offset information	Not Present

- FACH/PCH information	
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	·
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- 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 TOOOTIC
- 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
	0.1:4
- CHOICE CTFC Size	2 bit
- CTFC information	0
<ul> <li>Power offset information</li> </ul>	
- CHOICE Gain Factors	Computed Gain Factor reference TFC id=0
- 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 TOO SHE
- ASS Setting	500
CHOICE mode	
- CHOICE mode	FDD (ASC#4)
- Available signature Start Index	0 (ASC#1)
<ul><li>Available signature Start Index</li><li>Available signature End Index</li></ul>	0 (ASC#1) 7 (ASC#1)
<ul><li>Available signature Start Index</li><li>Available signature End Index</li><li>Assigned Sub-channel Number</li></ul>	0 (ASC#1) 7 (ASC#1) '1111'B
<ul><li>Available signature Start Index</li><li>Available signature End Index</li></ul>	0 (ASC#1) 7 (ASC#1)
<ul><li>Available signature Start Index</li><li>Available signature End Index</li><li>Assigned Sub-channel Number</li></ul>	0 (ASC#1) 7 (ASC#1) '1111'B
<ul> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> <li>CHOICE mode</li> </ul>	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD
<ul> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> </ul>	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3)
<ul> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> </ul>	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3)
<ul> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> </ul>	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3) '1111'B
<ul> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> </ul>	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3)
<ul> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-channel Number</li> </ul>	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3) '1111'B

- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
<ul> <li>Assigned Sub-channel Number</li> </ul>	'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
- PRACH power offset	0.10
- 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	
- 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	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	
	Not Present
	Not Present
- CTFC information	1
- CTFC information - Power offset information	
- CTFC information	1
- CTFC information - Power offset information	1 Not Present 2
<ul><li>CTFC information</li><li>Power offset information</li><li>CTFC information</li><li>Power offset information</li></ul>	1 Not Present 2 Not Present
<ul> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> </ul>	1 Not Present 2 Not Present 3
<ul> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> </ul>	1 Not Present 2 Not Present 3 Not Present
<ul> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> </ul>	1 Not Present 2 Not Present 3 Not Present 4
<ul> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> </ul>	1 Not Present 2 Not Present 3 Not Present
<ul> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> <li>Power offset information</li> <li>CTFC information</li> </ul>	1 Not Present 2 Not Present 3 Not Present 4
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information	1 Not Present 2 Not Present 3 Not Present 4 Not Present
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH)
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type	1 Not Present 2 Not Present 3 Not Present 4 Not Present
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH)
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset 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	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset 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	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset 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	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2
- CTFC information - Power offset information - CTFC information - Power offset information - Power offset information - Power offset information - CTFC information - Power offset 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 - CHOICE Logical Channel List	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD
- CTFC information - Power offset information - CTFC information - Power offset information - CTFC information - CTFC information - Power offset information - CTFC information - Power offset 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	1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD

- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
0.10 0.00	10 011
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
<ul> <li>Dynamic Transport format information</li> </ul>	
- RLC Size	360
<ul> <li>Number of TB and TTI List</li> </ul>	
<ul> <li>Number of Transport blocks</li> </ul>	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

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	4
- 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	3
- SIB_REP	64
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2

- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	36
- SIB_POS offset info	Not present
- SIB type SIBs only	System Information Type 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 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	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
·	10
- 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	000
	4
- 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	
- Normal	
- TFCI Field 1 information	
	Complete
- 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 &c	10
- Gain factor &d	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- 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	1.51.100011
- 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
<ul> <li>Available signature Start Index</li> </ul>	0 (ASC#5)
<ul> <li>Available signature End Index</li> </ul>	7 (ASC#5)
<ul> <li>Assigned Sub-channel Number</li> </ul>	'1111'B
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
<ul> <li>Available signature Start Index</li> </ul>	0 (ASC#7)
<ul> <li>Available signature End Index</li> </ul>	7 (ASC#7)
<ul> <li>Assigned Sub-channel Number</li> </ul>	'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	
- 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	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0 (Fair 0.000 DOLLE)
- Secondary CCPCH system information	(For 3 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor - Code number	128
	6
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed 30
- Timing offset - 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
	1 4
<ul> <li>Number of Transport blocks</li> </ul>	1
- Number of Transport blocks - CHOICE Mode	FDD

I 0 : 1 5 T	1
- Semi-static Transport Format information	10
- Transmission time interval - Type of channel coding	10 ms Convolutional
- Type of charmer coding - Coding Rate	
- 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 - STTD indicator	Not Present FALSE
- STID indicator - 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	Complete
- 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 - CTFC information	Not Present
- CTPC information - Power offset information	Not Present
- FACH/PCH information	Not i resem
- 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 - CHOICE Mode	2 FDD
- CHOICE Mode - CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	ALL
- 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 - TFS	FALSE
- CHOICE Transport channel type	(FACH)
- Dynamic Transport format information	Common transport channels
- 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	10 mg
- Transmission time interval - Type of channel coding	10 ms Turbo
- Rate matching attribute	130
1 . tato matering attribute	1 .00

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

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

<FFS>

# 6.1.4 Default parameters for 1 to 8 cell environments

#### Default settings for cell No.1 (FDD):

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

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

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

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

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

#### Default settings for cell No.1 (TDD):

Downlink input level	Reference clause 6.10 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

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

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

#### Default settings for cell No.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 nur	per 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

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

terits of System information block type 11 for	
- Intra-frequency measurement system	
information	
New intra-frequency cells	
- Intra-frequency cell id	3
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.3
	(FDD)" in clause 6.1.4
- Intra-frequency cell id	1
- Cell info	Same content as specified for Intra-frequency cell id=2
	(neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code
	shall be according to clause titled "Default settings for cell
	No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id	2
- Cell info	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	7
- Cell info	Same content as specified for Intra-frequency cell id=7 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	8
- Cell info	Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b
	SIBTI for Cell 1 III sub-clause 6.1.0b
- Inter-frequency measurement system	
information	
<ul> <li>New inter-frequency cells</li> </ul>	
- Inter frequency cell id	4
- Frequency info	Same content as specified for Inter-frequency cell id=4 in
- Cell info	SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=4 in
- Cell IIIIO	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	5
- Frequency info	Not Present
, , , ,	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=5 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	6
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
- Cell info	"frequency info" in the list. Same content as specified for Inter-frequency cell id=6 in
- Oeli lilio	SIB11 for Cell 1 in sub-clasue 6.1.0b
	CIETTION CONTINUOUS CIACOGO CITIOD

# 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	
<ul> <li>Primary CCPCH info</li> </ul>	
- 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

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

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

clause 6.1.4

that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in

- Inter-frequency cell id	8
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.8 (FDD)" in
	clause 6.1.4

## 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.4 with the following exceptions:

Cell identity	0000 0000 0000 0000 0000 0101B
URA identity	0000 0000 0000 0011B

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

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

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

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

clause 6.1.4

that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in

- Inter-frequency cell id	8
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.8 (FDD)" in
	clause 6.1.4

## 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.4 with the following exceptions:

Cell identity	0000 0000 0000 0000 0000 0000 0110B
URA identity	0000 0000 0000 0011B

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

Downlink input level	Reference clause 6.10 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

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

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

clause 6.1.4

that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in

<ul> <li>Inter-frequency cell id</li> </ul>	8
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous "frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4

## 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

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

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

## 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

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

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

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	-81	
UE_TXPWR_MAX_RACH	dBm	21	
CPICH Ec (see notes 1 and 2)	dBm/3.84	-60	
	MHz		

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

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

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

Parameter	Unit	Cell 1	Cell 2	Cell 4
Cell type		Serving cell	Suitable neighbour intra- frequency cell	Suitable neighbour inter- frequency cell
UTRA RF Channel Number		Channel 1	Channel 1	Channel 2
Qqualmin	dB	-24	-2	24
Qrxlevmin	dBm	-81	-8	31
UE_TXPWR_MAX_RACH	dBm	21	2	1
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60	-7	0

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

Table 6.1.3: Default settings for a non-suitable cell

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

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

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

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

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-81
UE_TXPWR_MAX_RACH	dBm	21
CPICH_Ec	dBm/3.84	≤ -122
	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.

"off".

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			

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

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

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

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

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

Parameter	Unit	Cell 1	Cell 2		
Cell type		Serving cell	Suitable neighbour cell		
UTRA RF Channel Number		Channel 1	Channel 1		
Qrxlevmin	dBm	-81	-81		
UE_TXPWR_MAX_RACH	dBm	21	21		
PCCPCH RSCP	dBm	-60	-70		
NOTE: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.123.					

Table 6.1.8: Default settings for a non-suitable cell

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

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

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

# 6.2 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	X	-	_
S-CCPCH	_	X	_
DPCH	_	X	-
PICH	_	X	_
AICH	_	X	_

## 6.7.2.2 Diverse Operation (TDD mode)

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

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

# 6.8 Compressed Mode Parameters

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

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

# 6.8.1 Single compressed mode pattern

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

## 6.8.1.1 Inter Frequency FDD measurement

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	3	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL & UL or DL	2 configurations possible. DL & UL / DL
UL compressed mode method	SF/2	Q 027 22
DL compressed mode method	SF/2	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

## 6.8.1.2 Inter Frequency TDD measurement

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

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

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

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

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

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

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

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

The configuration parameters for an inter RAT measurement (GSM – Init BSIC Identify) is shown in table 6.8.4.

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

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

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

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

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

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

# 6.8.2 Multiple compressed mode patterns

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

## 6.8.2.1 Inter RAT measurement GSM

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

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

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

Inter Frequency FDD measurement & Inter RAT measurement GSM
Inter Frequency FDD measurement & Inter Frequency TDD measurement
Inter Frequency TDD measurement & Inter RAT measurement GSM
Inter Frequency TDD measurement & Inter RAT measurement GSM
Inter Frequency FDD measurement & Inter Frequency TDD measurement & Inter RAT measurement GSM

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

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

## 6.10.1 QoS Architecture and RAB attributes

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

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

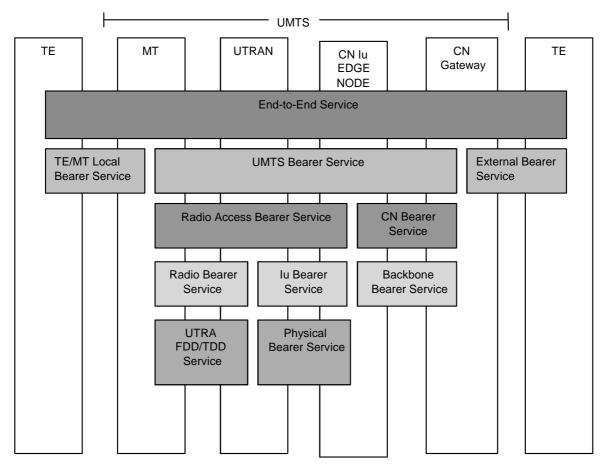


Figure 6.10.1.1: UMTS QoS Architecture

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

- Traffic class:

- SSD:
- Maximum bit rate:
- Residual BER.

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

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

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

Table 6.10.1.1: Traffic classes

# 6.10.2 RAB and signalling RB for FDD

## 6.10.2.1 RABs and signalling RBs

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

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

Table 6.10.2.1.1: Prioritised RABs.

#	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 CS
4a	Conversational	Speech	UL:(7.4, 6.7, 5.9,	CS
			4.75) DL:(7.4, 6.7,	
-	Convergational	Cnaach	5.9, 4.75)	CC
5 6	Conversational Conversational	Speech Speech	UL:6.7 DL:6.7	CS CS
7	Conversational	-	UL:5.9 DL:5.9 UL:5.15 DL:5.15	CS
8	Conversational	Speech	UL:4.75 DL:4.75	CS
9	Conversational	Speech 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	Void	OTHEROWIT	OLIOT BLIO	- 00
18	Void			
19	Void			
20	Interactive or Background	N/A	UL:32 DL:8	PS
20a	Interactive or Background	N/A	UL:8 DL:8	PS
20b	Interactive or Background	N/A	UL:16 DL:16	PS
20c	Interactive or Background	N/A	UL:32 DL:32	PS
21	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.
- Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Void
- 21) Void
- 22) Void
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) 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) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:128 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) 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) Void
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
  - + Interactive or background / UL:8 DL:8 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

#### 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.
- 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.
- 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) 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

- 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 <sup>-4</sup> , 1x10 <sup>-3</sup> , 5x10 <sup>-3</sup>	AMR speech
Conversational	Unknown	UL:64 DL:64	CS	1x10 <sup>-4</sup> or 1x10 <sup>-6</sup>	UDI 1B, 64k 3G-324M [15]
Conversational	Unknown	UL:32 DL:32	CS	1x10 <sup>-4</sup> or 1x10 <sup>-6</sup>	32k 3G-324M [15]
Conversational	Unknown	UL:28.8 DL:28.8	CS	1x10 <sup>-3</sup>	Transparent modem
Streaming	Unknown	UL:14.4 DL:14.4	CS	1x10 <sup>-3</sup>	FAX <sup>[6]</sup>
Streaming	Unknown	UL:28.8 DL:28.8	CS	1x10 <sup>-3</sup>	FAX [18] PIAFS 32 kbps
Streaming	Unknown	UL:57.6 DL:57.6	CS	1x10 <sup>-3</sup>	Modem [18], FTM [17] PIAFS 64 kbps
Streaming	Unknown	UL:64-128 or DL:64-384	CS	1x10 <sup>-3</sup> or 1x10 <sup>-4</sup>	Streaming video, uni-directional
Interactive or Background	N/A	UL:32-384 DL:8-2048	PS	1x10 <sup>-3</sup> or 1x10 <sup>-4</sup>	Packet

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

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

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

# 6.10.2.4 Typical radio parameter sets

6.10.2.4.1 Combinations on DPCH

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

6.10.2.4.1.1.1 Uplink

6.10.2.4.1.1.1 Transport channel parameters

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

Higher layer			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	/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 h	neader, 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	TB sizes, bit		148 (alt 0, 148)			
	TFS	S TF0, bits		0x148 (alt 1x0)			
		TF1, bits		1x1	48		
	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		51	16		
	matching						
	Uplink: Max number of bits/radio			6	5		
	frame before rate	matching					
	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		148 (alt 0, 148) (note)				
	TFS	TFS TF0, bits		0 x148 (alt	1x0) (note)		
		TF1, bits		1x1	48		
	TTI, ms	TTI, ms		80			
	Coding type	Coding type		CC 1/3			
	CRC, bit		16		6		
	Max number of bits/TTI before rate matching			51	6		
	RM attribute			155-	185		
NOTE: altern	ative parameters enable	the measurement	transport chan	nel BLER" in th	e 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	RAB/signalling RB		SRB#2	SRB#3	SRB#4	
	User of Radio	Bearer	RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channe	el 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 PD	U header, bit	8	16	16	16	
MAC	MAC header, l	oit	4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH			
	TB sizes, bit		148 (alt 0, 148)				
	TFS	·		0x148 (alt 1x0)			
		TF1, bits		1x′	148		
	TTI, ms	TTI, ms		40			
	Coding type		CC 1/3				
	CRC, bit	CRC, bit		16			
	Max number o	f bits/TTI before rate	516				
matching							
	Uplink: Max number of bits/radio		129				
	frame before r	ate matching					
	RM attribute			155 <sub>-</sub>	-185		

## 6.10.2.4.1.2.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.1.2.1.2 Physical channel parameters

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

## 6.10.2.4.1.2.2 Downlink

## 6.10.2.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bear	User of Radio Bearer		RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		3400	3200	3200	3200	
	AMD/UMD PDU he	ader, bit	8	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			0x148 (alt 1x0) (note)			
		TF1, bits		1x1	48		
	TTI, ms			4	0		
	Coding type	Coding type		CC 1/3			
	CRC, bit			1	6		
	Max number of bits	Max number of bits/TTI before rate		516			
	matching	matching					
	RM attribute			155-			
NOTE: alterna	ative parameters enable	e the measurement "	transport chan	nel BLER" in th	ie UE.		

## 6.10.2.4.1.2.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.1.2.2.2 Physical channel parameters

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

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

6.10.2.4.1.3.1 Uplink

6.10.2.4.1.3.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4		
	User of Radio Bea	User of Radio Bearer		RRC	NAS_DT	NAS_DT		
					High prio	Low prio		
RLC	Logical channel type	ре	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	MAC header, bit		4	4	4		
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH				
	TB sizes, bit			148 (alt 0, 148)				
	TFS	TFS TF0, bits		0x148 (alt 1x0)				
		TF1, bits		1x′	148			
	TTI, ms		10					
	Coding type	Coding type		CC 1/3				
	CRC, bit		16					
	Max number of bits	s/TTI before rate	516					
	matching							
	Uplink: Max numbe			51	16			
	frame before rate r	matching						

## 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 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	13600	12800	12800	12800	
	AMD/UMD PDU header, 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		1	0		
	Coding type	CC 1/3				
	CRC, bit	16				
	Max number of bits/TTI before rate		51	16		
	matching					
NOTE: altern	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 fact	or	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/Signa	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical ch	annel type		DTCH	
	RLC mode		TM	TM	TM
	Payload si	zes, bit	39, 81 (alt. 0, 39, 81)	103	60
	Max data	rate, bps	, , ,	12200	
	TrD PDU I	neader, bit		0	
ИАС	MAC head	ler, bit		0	
	MAC multiplexing			N/A	
_ayer 1	TrCH type		DCH	DCH	DCH
		TB sizes, bit	39, 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 typ	oe .	CC 1/3	CC 1/3	CC ½
	CRC, bit		12	N/A	N/A
	Max numb	er of bits/TTI after oding	303	333	136
	Uplink: Ma	ax number of bits/radio ore rate matching	152	167	68
	RM attribute		180-220	170-210	215-256

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

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

See clause 6.10.2.4.1.2.1.1.

## 6.10.2.4.1.4.1.1.3 TFCS

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

## 6.10.2.4.1.4.1.2 Physical channel parameters

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

6.10.2.4.1.4.2 Downlink

6.10.2.4.1.4.2.1 Transport channel parameters

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

Higher layer	RAB/Signal	ling 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			12 200		
MAC	MAC heade	,		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 ½	
Ì	CRC, bit		12	N/A	N/A	
	Max number	er of bits/TTI after ding	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 posit	ion	Fixed
Downlink	Spreading factor		128
	DPCCH	Number of TFCI bits/slot	0
		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	34
		Number of data bits/frame	510

6.10.2.4.1.4a 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

layer		3/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	LC Logical channel type		DTCH		
	RLC mod	е	TM	TM	TM
	Payload s	sizes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 81)	53, 63, 84, 103	60
	Max data	rate, bps	, , ,	12200	•
	TrD PDU	header, bit		0	
MAC	MAC hea	der, bit		0	
	MAC mult	tiplexing		N/A	
Layer 1	TrCH type	9	DCH	DCH	DCH
		TB 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 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		303	333	136
		ax number of frame before rate	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 ch	annel 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,	bit	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 type	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	ıte	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/Signalling RB		RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH		
	RLC mode		TM	TM	TM
	Payload sizes, bit		39, 65 (alt. 0, 39, 65)	99	40
	Max data	rate, bps	, , ,	10200	-
	TrD PDU	header, bit		0	
ИAC	MAC hea	ader, bit		0	
	MAC mu	Itiplexing		N/A	
_ayer 1	TrCH type		DCH	DCH	DCH
	TB sizes, bit		39, 65 (alt. 0, 39, 65)	99	40
	TFS	TF0, bits	0x65 (alt. 1x0) (note)	0x99	0x40
		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 ½
	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 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 ½	
	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, CI number of TrBlks are 1 even if the	RC parity bits are to be a	attached to RAB subflo	w#1 any time since

## 6.10.2.4.1.5a.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

#### 6.10.2.4.1.5a.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 channel 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	7950	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A	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	
	Uplink: Max number of bits/radio frame before rate matching	143	138	
	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 sub-			

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	DTCH	
	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		0		
	MAC multiplexing		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		12	N/A	
		per of bits/TTI after channel coding	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	DTO	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	
_ayer 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	122	143	
	rate matching			
	RM attribute	180-220	170-210	

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	DTCH	
	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 multiplexing		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/Signalling 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/Sign	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTCH	
	RLC mod	e	TM	TM
	Payload s	sizes, bit	0, 39, 42, 55, 58, 61	53, 63, 76, 87
	Max data	rate, bps	740	00
	TrD PDU	header, bit	0	
MAC	MAC hea	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
		ber of bits/TTI after channel coding	243	285
	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.).

#### 6.10.2.4.1.7a.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 layer	RAB/Signalling RB		RAB subflow #1	RAB subflow #2
RLC			DTCH	
0	RLC mod		TM	TM
	Payload	sizes, bit	39, 58 (alt. 0, 39, 58)	76
	Max data	a rate, bps	670	00
	TrD PDU	J header, bit	0	
MAC	MAC hea	ader, bit	0	
	MAC mu	ıltiplexing	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  Max number of bits/TTI after channel coding  Uplink: Max number of bits/radio frame before rate matching		12	N/A
			234	252
			117	126
	RM attribute		180-220	170-210
		sing this alternative, CRC parity bits are e 1 even if there is no data on RAB subfle		•

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.8.1.1.3 TFCS

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

#### 6.10.2.4.1.8.1.2 Physical channel parameters

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

6.10.2.4.1.8.2 Downlink

6.10.2.4.1.8.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DTC	CH
	RLC mode	TM	TM
	Payload sizes, bit	0 39	76
		58	
	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	0	76
		39	
		58	
	TFS TF0, bits	1x0 (note 2)	0x76
	(note 1) TF1, bits	1x39	1x76
	TF2, bits	1x58	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	234	252
	RM attribute	180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.8.2.1.3 TFCS

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

## 6.10.2.4.1.8.2.2 Physical channel parameters

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

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

6.10.2.4.1.9.1 Uplink

6.10.2.4.1.9.1.1 Transport channel parameters

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

Higher 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	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	DTCH	
	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 header, bit		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	DTCH	
	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		
_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 ch	annel type	DT	DTCH	
	RLC mode	9	TM	TM	
	Payload s	izes, bit	0	54	
			39		
			49		
	Max data	rate, bps	51:	50	
	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	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	oe .	CC 1/3	CC 1/3	
	CRC, bit		12	N/A	
		per of bits/TTI after channel coding	207	186	
	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).

## 6.10.2.4.1.10.2.1.2 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	
RLC	Logical channel type	DTO	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 42 (alt. 0, 39, 42)	53	
	Max data rate, bps	475	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	(	)
	MAC mult	iplexing	N/A	
Layer 1	TrCH type	•	DCH	DCH
	TB sizes,	bit	0	53
			39	
			42	
	TFS	TF0, bits	1x0 (note 2)	0x53
	(note 1)	TF1, bits	1x39	1x53
		TF2, bits	1x42	N/A
	TTI, ms		20	20
	Coding type	oe	CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max numb	per of bits/TTI after channel coding	186	183
	RM attribu	ite	180-220	170-210

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

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

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

See clause 6.10.2.4.1.1.2.1.1

#### 6.10.2.4.1.11.2.1.3 TFCS

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

## 6.10.2.4.1.11.2.2 Physical channel parameters

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

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

6.10.2.4.1.12.1 Uplink

6.10.2.4.1.12.1.1 Transport channel parameters

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

Higher 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 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 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

6.10.2.4.1.13.1 Uplink

6.10.2.4.1.13.1.1 Transport channel parameters

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

Higher	RAB/Signalling	RB	RAB
layer RLC	Logical channel type		DTCH
	RLC mode	1,750	TM
	Payload sizes, b	oit	640
	Max data rate, b		64000
	TrD PDU heade	er, 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 RE	3	RAB
RLC	Logical channel ty	ре	DTCH
	RLC mode		TM
	Payload sizes, bit		640
	Max data rate, bps	3	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	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)
	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 frame	1200
	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 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 (alt. 1x0) (note)
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	RM attribute	135-175
NOTE:	Alternative 1x0 is used to have CRC present in all transpo	rt formats.

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

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.16.2.1.3 TFCS

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

## 6.10.2.4.1.16.2.2 Physical channel parameters

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

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

6.10.2.4.1.17.1 Uplink

6.10.2.4.1.17.1.1 Transport channel parameters

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

Higher 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

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

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 TFCS

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 (alt. 1x0) (note)
	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
NOTE:	Alternative 1x0 is used to have CRC present in all tra	ansport formats.

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

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

Higher	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)
	Uplink: Max number of bits/radio frame before	1062 (alt. 1080)
	rate matching RM attribute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23.1.1.3 TFCS

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

## 6.10.2.4.1.23.1.2 Physical channel parameters

DPCH	Min spreading factor	32
Uplink	Max number of DPDCH data bits/radio	1200
	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 (alt. TC)
	CRC, bit	16
	Max number of bits/TTI after channel coding	1080 (alt. 1068)
	Uplink: Max number of bits/radio frame	270 (alt. 267)
	before rate matching	
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.23a.1.1.3 TFCS

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

## 6.10.2.4.1.23a.1.2 Physical channel parameters

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

6.10.2.4.1.23a.2 Downlink

6.10.2.4.1.23a.2.1 Transport channel parameters

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

Higher 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	8000
	AMD PDU header, bit		16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
	TTI, ms		40
	Coding type		CC 1/3 (alt. TC)
	CRC, bit		16
	Max number of bits/TTI after channel coding		1080 (alt. 1068)
	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 before rate matching	531
	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		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
l			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 channel type		DTCH
	RLC mo		AM
	Payload	sizes, bit	320
	Max data	a rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC he	ader, bit	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		4236
	Uplink: Max number of bits/radio frame before rate matching		1059
	RM attrib		135-175

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

See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.23c.1.1.3 TFCS

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

### 6.10.2.4.1.23c.1.2 Physical channel parameters

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

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical o	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 multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes	, bit	336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms		40
	Coding t		TC
	CRC, bit		16
		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

150

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 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
	RM attri	bute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.23d.2.1.3 TFCS

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

# 6.10.2.4.1.23d.2.2 Physical channel parameters

DPCH	DTX position		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/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
	Uplink: Max number of bits/radio frame before rate matching	2118
	RM attribute	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

# 6.10.2.4.1.28.1.1.1 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
	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

6.10.2.4.1.30.1.1.1 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
	Uplink: Max number of bits/radio frame before	4758
	rate matching	
	RM attribute	140-180

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

See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.30.1.1.3 TFCS

TFCS size	12
TFCS	(144 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)

# 6.10.2.4.1.30.1.2 Physical channel parameters

DPCH	Min spreading factor	8
Uplink	Max number of DPDCH data bits/radio	4800
	frame	
	Puncturing Limit	0.84

6.10.2.4.1.30.2 Downlink

See clause 6.10.2.4.1.29.2.

6.10.2.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.31.1 Uplink

See clause 6.10.2.4.1.24.1.

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/Signal	ling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload siz	es, bit	320
	Max data ra	ate, bps	256000
	AMD PDU I	neader, bit	16
MAC	MAC heade	er, bit	0
	MAC multip	lexing	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	Spreading factor		8
	Number od DPDCH		1
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

6.10.2.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.32.1 Uplink

See clause 6.10.2.4.1.24.1.

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 DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.32.2.1.3 TFCS

TFCS size	12 (alt.18)
TFCS	(384 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1))

# 6.10.2.4.1.32.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	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/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	12x336
	TF6, bits	16x336(alt. N/A)
	TF7, bits	20x336(alt. N/A)
	TF8, bits	24 x336 (alt. N/A)
	TTI, ms	20 (alt. 10)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	25368
	Uplink: Max number of bits/radio frame before	12684
	rate matching	
	RM attribute	110-150

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.34.1.1.3 TFCS

TFCS size	18 (alt.12)
TFCS	(384 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1))

# 6.10.2.4.1.34.1.2 Physical channel parameters

DPCH	Min spreading factor	4
Uplink	Max number of DPDCH data bits/radio frame	9600
	Number of DPDCH	1
	Puncturing Limit	0.72

6.10.2.4.1.34.2 Downlink

See clause 6.10.2.4.1.32.2.

6.10.2.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.2.4.1.35.1 Uplink

See clause 6.10.2.4.1.24.1.

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, 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))

### 6.10.2.4.1.38.1.2 Physical channel parameters

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

6.10.2.4.1.38.2 Downlink

6.10.2.4.1.38.2.1 Transport channel parameters

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

6.10.2.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.23.2.1.1.

6.10.2.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.

#### 6.10.2.4.1.38.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)

6.10.2.4.1.38.2.2 Physical channel parameters

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

6.10.2.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38a.1 Uplink

6.10.2.4.1.38a.1.1 Transport channel parameters

6.10.2.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

Higher 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,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)

# 6.10.2.4.1.38a.1.2 Physical channel parameters

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

6.10.2.4.1.38a.2 Downlink

6.10.2.4.1.38a.2.1 Transport channel parameters

6.10.2.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

### 6.10.2.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

Higher 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	g factor	128
	DPCCH	Number of TFCI bits/slot	0
		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	34
		Number of data bits/frame	510

6.10.2.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38b.1 Uplink

6.10.2.4.1.38b.1.1 Transport channel parameters

6.10.2.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

Higher 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,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)

### 6.10.2.4.1.38b.2.2 Physical channel parameters

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

6.10.2.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

6.10.2.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.2.4.1.23c.1.1.1.

6.10.2.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38c.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,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,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1)

#### 6.10.2.4.1.38c.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data bits/radio	2400
	frame	
	Puncturing Limit	1.0

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

6.10.2.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.2.4.1.23c.2.1.1.

6.10.2.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.38c.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1)

### 6.10.2.4.1.38c.2.2 Physical channel parameters

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

6.10.2.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS

RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

6.10.2.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

Higher Layer	RAB/Signalling RB		RAB	RAB
RLC	Logical ch	nannel 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 channel multiplexing	
Layer 1	TrCH type	9	DCH	
	TB sizes,	bit	340	
	TFS	TF0, bits	0x3	40
		TF1, bits	1x3	40
		TF2, bits	2x3	40
		TF3, bits	3x3	40
		TF4, bits	4x340	
	TTI, ms		20	
	Coding ty	pe	TC	
	CRC, bit		16	
		ber of bits/TTI after channel coding	4284	
		ax number of bits/radio frame	2142	
		e matching		
	RM attrib	ute	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 size TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 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,TF3,TF0), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF1,TF1), (TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1), (TF0,TF0,TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1), (TF0,TF0,TF3,TF1,TF1,TF3,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 mc	de	AM	AM
	Payload	sizes, bit	320	320
	Max dat	a rate, bps	64000	64000
	AMD PE	OU header, bit	16	16
MAC	MAC he	ader, bit	4	4
	MAC mu	ultiplexing	2 logical chann	nel multiplexing
Layer 1	TrCH type		DCH	
	TB sizes, bit		340	
	TFS	0x340	0x340	
		1x340	1x3	340
		2x340	2x3	340
		3x340	3x3	340
		4x340	4x3	340
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		1	6
	Max number of bits/TTI after channel coding		42	84
	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), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1)

#### 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.1.1.2.

6.10.2.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38f.1.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)

### 6.10.2.4.1.38f.1.2 Physical channel parameters

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

6.10.2.4.1.38f.2 Downlink

6.10.2.4.1.38f.2.1 Transport channel parameters

6.10.2.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.2.1.2

6.10.2.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.38f.2.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,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)

### 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,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,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,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,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,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

===00 :	
TFCS size	48
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,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), (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),
	(TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF4,TF0),
	(TF0,TF0,TF0,TF1), (TF0,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), (TF4,TF3,TF0,TF2,TF1), (TF4,TF3,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF3,TF2,TF0,TF1,TF1), (TF3,TF2,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF2,TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF2,TF1,TF0,TF2,TF1), (TF2,TF1,TF0,TF4,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.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), (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,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,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,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)

# 6.10.2.4.1.38i.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data bits/radio	2400
	frame	
	Puncturing Limit	0.76

6.10.2.4.1.38i.2 Downlink

6.10.2.4.1.38i.2.1 Transport channel parameters

6.10.2.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.38i,2.1.4 TFCS

TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,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,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),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),
	(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)

# 6.10.2.4.1.38i.2.2 Physical channel parameters

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

6.10.2.4.1.38j Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

6.10.2.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

# 6.10.2.4.1.38j.2.1.4 TFCS

TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),
	(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,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 position		Flexible
Downlink	Spreading factor		16
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	288
		Number of data bits/frame	4320

6.10.2.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.39.1 Uplink

See clause 6.10.2.4.1.38.1.

6.10.2.4.1.39.2 Downlink

6.10.2.4.1.39.2.1 Transport channel parameters

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

6.10.2.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.2.4.1.25.2.1.1.

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

#### 6.10.2.4.1.39.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (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), (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, 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)

# 6.10.2.4.1.40.1.2 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, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)
	(TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)
	(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))

# 6.10.2.4.1.43.2.2 Physical channel parameters

DPCH	DTX posit	ion	Flexible
Downlink	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, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

# 6.10.2.4.1.44.1.2 Physical channel parameters

DPCH	Min spreading factor	8
Uplink	Max number of DPDCH data	4800
	bits/radio frame	
	Puncturing Limit	0.92

6.10.2.4.1.44.2 Downlink

6.10.2.4.1.44.2.1 Transport channel parameters

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

6.10.2.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.2.4.1.35.2.1.1.

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

# 6.10.2.4.1.44.2.1.4 TFCS

TFCS size	66 (alt. 114)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
	(TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0),
	(TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),  (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))

# 6.10.2.4.1.44.2.2 Physical channel parameters

DPCH	DTX positi	on	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 bbps 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, 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)

# 6.10.2.4.1.45.2.2 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, 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 Void
 6.10.2.4.1.48 Void
 6.10.2.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
 6.10.2.4.1.49.1 Uplink
 6.10.2.4.1.49.1.1 Transport channel parameters
 6.10.2.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB
 See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.49.1.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)

# 6.10.2.4.1.49.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data	2400
	bits/radio frame	
Puncturing Limit		0.72

6.10.2.4.1.49.2 Downlink

6.10.2.4.1.49.2.1 Transport channel parameters

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

6.10.2.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.11.

# 6.10.2.4.1.49.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, 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)

# 6.10.2.4.1.49.2.2 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,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)

# 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,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)

#### 6.10.2.4.1.49a.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

Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB 6.10.2.4.1.50.1.1.1

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)	

#### Physical channel parameters 6.10.2.4.1.50.1.2

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 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.51a.1.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)

# 6.10.2.4.1.51a.1.2 Physical channel parameters

DPCH	Min spreading factor 16		
Uplink	Max number of DPDCH data bits/radio frame	2400	
	Puncturing Limit	0.72	

6.10.2.4.1.51a.2 Downlink

6.10.2.4.1.51a.2.1 Transport channel parameters

6.10.2.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.51a.2.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)

# 6.10.2.4.1.51a.2.2 Physical channel parameters

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

6.10.2.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51b.1 Uplink

6.10.2.4.1.51b.1.1 Transport channel parameters

6.10.2.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

Higher layer	RAB/Sign	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode	9	AM
	Payload s	izes, bit	320
	Max data	rate, bps	16000
	AMD PDU	header, bit	16
MAC	MAC head	der, bit	0
	MAC mult	iplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes,	bit	336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		2124
	Uplink: Ma	ax number of bits/radio frame before rate matching	531
	RM attribute		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, TF2, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF2, 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 Void

6.10.2.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background /

UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.56.1 Uplink

6.10.2.4.1.56.1.1 Transport channel parameters

6.10.2.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB +

UL:8 kbps / PS RAB

Higher Layer	RAB/Signalling RB		RAB	RAB
RLC	Logical	channel type	DTCH	DTCH
	RLC mo	de	AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	8000	8000
	AMD PDU header, bit		16	16
MAC	MAC header, bit		4	4
	MAC multiplexing		2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
_	TB sizes, bit		340	
	TFS	TF0, bits	0x340	
		TF1, bits	1x340	
	TTI, ms		40	
	Coding type		TC	
	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		135-1	75

# 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	0x340	
	TF1, bits	1x340	
	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 channe	l multiplexing
Layer 1	TrCH type	DCH	
	TB sizes, bit	340	
	TFS TF0, bits	0x340	
	TF1, bits	1x34	10
	TF2, bits	2x34	10
	TF3, bits	3x34	-0
	TF4, bits	4x340	
	TTI, ms	20	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	4284	
	Uplink: Max number of bits/radio frame before rate matching	2142	
	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		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	Logical	channel type	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 chani	nel multiplexing
Layer 1	TrCH type		DCH	
	TB sizes, bit		340	
	TFS	0x340	0x340	
		1x340	1x340	
		2x340	2x	340
	3x340		3x340	
		4x340	4x	340
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		16	
	Max nun	nber 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.1.1.2.

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.58.1.1.4 TFCS

TFCS size	8	
TFCS	(16 kbps RAB, 8 kbps RAB, DCCH)=	
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0),	
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1)	

### 6.10.2.4.1.58.1.2 Physical channel parameters

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

6.10.2.4.1.58.2 Downlink

6.10.2.4.1.58.2.1 Transport channel parameters

6.10.2.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload	sizes, bit	640
	Max data	a rate, bps	64000
	AM PDU	header, bit	16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		656
	TFS	TF0, bits	0x656
		TF1, bits	1x656
		TF2, bits	2x656
		TF3, bits	4x656
	TTI, ms		40
	Coding 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.2.1.2.

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

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.58.2.1.4 TFCS

TFCS size	16
TFCS	(64 kbps RAB, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0),
	(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1),
	(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1)

# 6.10.2.4.1.58.2.2 Physical channel parameters

DPCH	DTX position Spreading factor		Flexible
Downlink			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

# 6.10.2.4.2 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
	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 position		N/A (SingleTrCH)
	Minimum sp	oreading factor	8
DPCH	RAB or SRB, TrCh		3.4 kbps SRB for DCCH, DCH
Downlink	DTX position		N/A (SingleTrCH)
associated	Spreading factor		256
with	DPCCH	Number of TFCI bits/slot	2
PDSCH		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	12
		Number of data bits/frame	180

6.10.2.4.2.2 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	RAB or SRB, TrCh		Interactive or background / 384 kbps / PS RAB, DSCH
	DTX position	n	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/Signalling 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 sp	oreading 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

6.10.2.4.2.4.2.1.2 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		N/A (SingleTrCH)
	Minimum spreading factor		4
DPCH Downlink	RAB or SR	RB, 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, DSCH	
	DTX position		N/A (SingleTrCH)	
	Minimum spreading factor		8	
DPCH Downlink associated	RAB or SRB, TrCh		Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with PDSCH	DTX position		Fixed	
	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	2048 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18)		
DPCH	TFCS	6		
Downlink	size			
associated	TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =		
with		(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),		
PDSCH		(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)		

# 6.10.2.4.2.6.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 2048 kbps / PS RAB, DSCH	
	DTX position		N/A (SingleTrCH)	
	Minimum spreading factor		4	
DPCH Downlink associated	RAB or SRB, TrCh		Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with PDSCH	DTX position		Fixed	
	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 TF	0, bts	0x240 (alt. 0x80)
	TF	1, bits	1x240 (alt. 1x80)
	TTI, ms		10
	Coding type		CC ½
	CRC, bit		16
	Max number of bits/TT matching	I before rate	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/signallin	g RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Radio Bearer		RRC	RRC	RRC	NAS_DT	NAS_DT	RRC
						High prio	Low prio	
RLC	Logical chann	nel type	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
	RLC mode		UM	UM	AM	AM	AM	TM
	Payload sizes	s, bit	152	136 or 120	128	128	128	166
				(note)				22222 ( ):
	Max data rate	e, bps	30400 (alt.	27200 or	25600 (alt.	25600 (alt.	25600 (alt.	33200 (alt.
			45600)	2400 (alt. 40800 or 36000)	38400)	38400)	38400)	49800)
	AMD/UMD/Tr	D PDU header,	8	8	16	16	16	0
MAC	MAC header, bit		8	24 or 40	24	24	24	2
IVIAC	MAC multiplexing		6 logical channel multiplexing					
Layer 1	TrCH type		FACH					
	TB sizes, bit		168					
		TF0, bits	0x168					
	TFS	TF1, bits	1x168					
	1173	TF2, bits	2x168					
		TF3, bits	N/A (alt. 3x168)					
	TTI, ms Coding type			10				
				CC ½				
	CRC, bit		16					
	Max number of bits/TTI before		752 (alt. 1136)					
	rate matching							
	RM attribute				200-	240		
NOTE:	MAC header s	ize and PLC paylo	oad size depend on use of U-RNTI or C-RNTI.					

### 6.10.2.4.3.2.1.3 TFCS

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

# 6.10.2.4.3.2.2 Physical channel parameters

SCCPCH	DTX position	Flexible
	Spreading factor	64
	Number of TFCI bits/slot	8
	Number of Pilot bits/slot	0
	Number of data bits/slot	72
	Number of data bits/frame	1080

6.10.2.4.3.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.2.4.3.2a.1 Transport channel parameters

# 6.10.2.4.3.2a.1.1 Transport channel parameters for Interactive or background / 32 kbps / PS RAB + 32 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB	RAB
RLC	Logical channel type	DTCH	DTCH
	RLC mode	AM	AM
	Payload sizes, bit	320	320
	Max data rate, bps	32000	32000
	AMD PDU header, bit	16	16
MAC	MAC header, bit	24	24
	MAC multiplexing	2 logical channel multiplexing	
Layer 1	TrCH type	FACH	
	TB sizes, bit	360	)
	TFS TF0, bits	0x360 1x360	
	TF1, bits		
	TTI, ms	10	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1140	
	RM attribute	110- 1	50

6.10.2.4.3.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

### 6.10.2.4.3.2a.1.3 TFCS

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

#### 6.10.2.4.3.2a.2 Physical channel parameters

SCCPCH	DTX position	Flexible
	Spreading factor	64
	Number of TFCI bits/slot	8
	Number of Pilot bits/slot	0
	Number of data bits/slot	72
	Number of data bits/frame	1080

Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for 6.10.2.4.3.3

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 or 8 for 240 bits PCH TrBlk size and TF3 not used			
	(alt 6, 7, 8 or 9 for 80 bits PCH TrBlk size and TF3 not used)			
	(alt 6, 7, 8 or 9 for 240 bits PCH TrBlk size and TF3 used)			
	(alt. 6, 7, 8, 9, 10, or 11 for 80 bits PCH TrBlk size and TF3 used)			
TFCS	(SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB) =			
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,			
	TF2, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size			
	and TF3 not used			
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,			
	TF2, TF0] (see note), (TF0, TF0, TF1), [TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for			
	80 bits PCH TrBlk size and TF3 not used)			
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,			
	TF2, TF0] (see note), [TF0, TF3, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for			
	240 bits PCH TrBlk size and TF3 used)			
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1,			
	TF2, TF0] (see note), [TF0, TF3, TF0] (see note), [TF1, TF3, TF0] (see note), (TF0, TF1),			
	[TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for 80 bits PCH TrBlk size and TF3 used)			
NOTE: These	e TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for			
	of (TF0, TF2, TF0).			

#### 6.10.2.4.3.3.2 Physical channel parameters

SCCPCH	DTX position	Flexible
	Spreading factor	64
	Number of TFCI bits/slot	8
	Number of Pilot bits/slot	0
	Number of data bits/slot	72
	Number of data bits/frame	1080

6.10.2.4.3.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.10.2.4.3.4.1 Transport channel parameters

# 6.10.2.4.3.4.1.1 Transport channel parameters of RB for CTCH

Higher layer RAB/signalling RB			N/A
	User of Radio Bearer		BMC
RLC	Logical channel type		CTCH
	RLC mode		UM
	Payload sizes, bit		152
	Max data rate, bps		15200
	UMD PDU header, b	it	8
MAC	MAC header, bit		8
	MAC multiplexing		N/A
Layer 1	TrCH type		FACH
	TB sizes, bit		168
	TFS	ΓF0, bts	0x168
		ΓF1, bits	1x168
	TTI, ms		10
	Coding type		CC 1/3
	CRC, bit		16
	Max number of bits/1	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/	TrD PDU header,	8	0	
	bit				
MAC	MAC header, bit		8	2	
IVIAC	MAC multiplexing		2 logical channel multiplexing		
Layer 1	TrCH type		F.A	FACH	
	TB sizes, bit		168		
	TFS TF0, bits		0x168		
	1173	TF1, bits	1x168		
	TTI, ms		10		
	Coding type	ding type		C 1/3	
	CRC, bit		16		
	Max number of bits/TTI		576		
	before rate r	matching			
	RM attribute		200	)-240	

# 6.10.2.4.3.4.1.3 TFCS

TFCS size	3
TFCS	(SRBs for CCCH/BCCH, RB for CTCH) =
	(TF0, TF0), (TF1, TF0), (TF0, TF1)

# 6.10.2.4.3.4.2 Physical channel parameters

SCCPCH	DTX position	Flexible
	Spreading factor	128
	Number of TFCI bits/slot	2
	Number of Pilot bits/slot	0
	Number of data bits/slot	38
	Number of data bits/frame	570

# 6.10.2.4.4 Combinations on PRACH

6.10.2.4.4.1 Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.2.4.4.1.1 Transport channel parameters

# 6.10.2.4.4.1.1.1 Transport channel parameter for Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	
layer	User of Radio Bearer	Interactive/ 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 chann	el multiplexing			
Layer 1	TrCH type		RACH					
	TB sizes, bit	360	168	168	168	168	168	
	TFS TF0, bits		1x168					
	TF1, bits			1x3	860			
	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 siz	e 2	2
TFCS	3	32 kbps + SRBs for CCCH/ DCCH = TF0, TF1

# 6.10.2.4.4.1.2 Physical channel parameters

PRACH	Minimum Spreading factor	64 (alt. 32)
	Max number of data bits/radio frame	600 (alt. 1200)
	Puncturing Limit	1

6.10.2.4.4.2 Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

# 6.10.2.4.4.2.1 Transport channel parameters

6.10.2.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB, Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
RLC	Logical channel type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH
	RLC mode	AM	AM	TM	UM	AM	AM	AM
	Payload sizes, bit	320	320	166	136	128	128	128
	Max data rate, bps	32000	32000	16600	13600	12800	12800	12800
	AMD/UMD/TrD PDU header, bit	16	16	0	8	16	16	16
MAC	MAC header, bit	24	24	2	24	24	24	24
	MAC multiplexing	7 logical channel multiplexing						
Layer	TrCH type		RACH					
1	TB sizes, bit	360	360	168	168	168	168	168
	TFS TF0, bits TF1, bits				1x168 1x360			
	TTI, ms				20 (alt. 10)			
	Coding type				CC ½			
	CRC, bit				16			
	Max number of bits/TTI after channel coding	768	768	384	384	384	384	384
	Max number of bits/ Radio frame before rate matching	384 (alt. 768)	384 (alt 768)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)

### 6.10.2.4.4.2.1.2 TFCS

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

# 6.10.2.4.4.2.2 Physical channel parameters

PRACH	Minimum Spreading factor	64 (alt. 32)
	Max number of data bits/radio frame	600 (alt. 1200)
	Puncturing Limit	1

# 6.10.3 RAB and signalling RB for TDD

# 6.10.3.1 RABs and signalling RBs

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

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

Table 6.10.3.1.1: Prioritised RABs.

#	Traffic class <sup>[3]</sup>	SSD <sup>[3]</sup>	Max. rate, kbps	CS/PS
1	Conversational	Speech	UL:12.2 DL:12.2	CS
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

Table 6.10.3.1.2: 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
9	UL:16.8	SHCCH	PRACH
10	UL:16.8	SHCCH	PRACH or PUSCH
11	DL:16	SHCCH	SCCPCH
12	DL:16	SHCCH	SCCPCH or PDSCH

# 6.10.3.2 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.
- 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	Consisses	
Traffic class <sup>[3]</sup>	SSD <sup>[3]</sup>	Max. rate, kbps	CS/PS	BER <sup>[3]</sup>	Services
Conversational	Speech	UL:4.75-12.2 DL:4.75-12.2	CS	5x10 <sup>-4</sup> , 1x10 <sup>-3</sup> , 5x10 <sup>-3</sup>	AMR speech
Conversational	Unknown	UL:64 DL:64	cs	1x10 <sup>-4</sup> or 1x10 <sup>-6</sup>	UDI 1B, 64k 3G-324M <sup>[4]</sup>
Conversational	Unknown	UL:32 DL:32	cs	1x10 <sup>-4</sup> or 1x10 <sup>-6</sup>	32k 3G-324M <sup>[4]</sup>
Conversational	Unknown	UL:28.8 DL:28.8	CS	1x10 <sup>-3</sup>	Transparent modem
Streaming	Unknown	UL:14.4 DL:14.4	CS	1x10 <sup>-3</sup>	FAX <sup>[6]</sup>
Streaming	Unknown	UL:28.8 DL:28.8	cs	1x10 <sup>-3</sup>	FAX <sup>[6]</sup> PIAFS 32 kbps
Streaming	Unknown	UL:57.6 DL:57.6	cs	1x10 <sup>-3</sup>	Modem <sup>[6]</sup> , FTM <sup>[5]</sup> , PIAFS 64 kbps
Streaming	Unknown	UL:64-128 or DL:64-384	cs	1x10 <sup>-3</sup> or 1x10 <sup>-4</sup>	Streaming video, uni-directional
Interactive or Background	N/A	UL:32-384 DL:8-2048	PS	1x10 <sup>-3</sup> or 1x10 <sup>-4</sup>	Packet

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

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

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

# 6.10.3.4 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	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		1700	1600	1600	1600		
	AMD/UMD PDU he	AMD/UMD PDU header, bit		16	16	16		
MAC	MAC header, bit		4	4	4	4		
	MAC multiplexing		4 logical channel multiplexing					
Layer 1	TrCH type		DCH					
	TB sizes, bit		148					
	TFS	TFS TF0, bits		0x148				
		TF1, bits	1x148					
	TTI, ms	80						
	Coding type		CC 1/3					
	CRC, bit			16				
	Max number of bits	Max number of bits/TTI before rate		516				
	matching							
	Max number of bits	/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 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		4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	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	Max number of bits/TTI before rate		5	16		
	matching	matching					
Max number of bits/radio frame		/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	TrCH type		DCH			
	TB sizes, bit	TB sizes, bit		148			
	TFS T	F0, bits	0x148				
	T	F1, bits		1x1	48		
	TTI, ms	TTI, ms		40			
	Coding type		CC 1/3				
	CRC, bit		16				
	Max number of bits/TTI	before rate		51	6		
	matching						
	Max number of bits/radio frame before			12	29		
	rate matching						
	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	RAB/signalling RB		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	TrCH type		DCH			
	TB sizes, bit			148			
	TFS	TF0, bits	0x148				
		TF1, bits	1x148				
	TTI, ms	TTI, ms		4	0		
	Coding type		CC 1/3				
	CRC, bit			16			
	Max number of bits	/TTI before rate		5′	16		
		matching					
Max number of bits/radi		/radio frame before		12	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	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
	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		10			
	Coding type		CC 1/3			
	CRC, bit			16		
Max number of bits/TTI before rate		/TTI before rate		5	16	
	matching					
Max number of bits/radio frame before rate matching			5	16		

# 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 channel multiplexing			
Layer 1	TrCH type	TrCH type		DCH		
	TB sizes, bit			14	18	
	TFS	TF0, bits		0x1	48	
		TF1, bits		1x1	48	
	TTI, ms		10			
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits/TTI before rate matching  Max number of bits/radio frame before rate matching			51	6	
				51	6	

# 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 ½
	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/Signal	ling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type			DTCH	
	RLC mode	•	TM	TM	TM
	Payload size	es, bit	0, 39, 81	103	60
	Max data ra	ite, bps		12200	
	TrD PDU he	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	)	CC 1/3	CC 1/3	CC ½
	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	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 multiplexing			N/A		
_ayer 1	TrCH type		DCH	DCH	DCH	
	TB sizes, bit		39, 65 (alt. 0, 39, 65)	99	40	
	TFS	TF0, bits	0x65 (alt. 1x0) (note)	0x99	0x40	
		TF1, bits	1x39	1x99	1x40	
		TF2, bits	1x65	N/A	N/A	
	TTI, ms		20	20	20	
	Coding ty	/ре	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	
	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 ½
	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 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	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		•	
I	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	DT	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	0, 39, 75	84	
	Max data rate, bps	79	50	
	TrD PDU header, bit	(	)	
MAC	MAC header, bit	(	)	
	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	143	138	
	matching 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 ch	annel type	DT	CH
	RLC mode		TM	TM
	Payload s	izes, bit	0, 39, 61	87
	Max data	rate, bps	74	00
	TrD PDU I	header, bit	(	)
MAC	MAC header, bit		(	)
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes, bit		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 numb matching	per of bits/radio frame before rate	122	143
	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 #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

Uplink 6.10.3.4.1.8.1

6.10.3.4.1.8.1.1 Transport channel parameters

#### Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB 6.10.3.4.1.8.1.1.1

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, 58 (alt. 0, 39, 58)	76	
	Max data rate, bps	670	6700	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/.	A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	TFS TF0, bits	0x58 (alt. 1x0) (note)	0x76	
	TF1, bits	1x39	1x76	
	TF2, bits	1x58	N/A	
	TTI, ms	20	20	
	Coding 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		•	
	of TrBlks are 1 even if there is no data on RAB subf	low#1 (see clause 4.2.1.1 in T	S 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		DT	DTCH	
	RLC mode	;	TM	TM	
	Payload si	zes, bit	0, 39, 58	76	
	Max data ı	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 number of bits/TTI after channel coding		234	252	
	Max number of bits/radio frame before rate matching		117	126	
	RM attribute		180-220	170-210	

NOTE 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	DTO	CH
	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	CH
	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

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

Higher	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
Layer			
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	
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

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).

# 6.10.3.4.1.10.1.1.2 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 RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DT	CH
	RLC mode	TM	TM
	Payload sizes, bit	0, 39, 49	54
	Max data rate, bps	51:	50
	TrD PDU header, bit	C	)
MAC	MAC header, bit	C	)
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	DCH
	TB sizes, bit	0, 39, 49	54
	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 number of bits/TTI after channel coding	207	186
	Max number of bits/radio frame before rate matching	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

#### Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB 6.10.3.4.1.11.1.1.1

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, 42 (alt. 0, 39, 42)	53	
	Max data rate, bps	475	50	
	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	

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	47	50	
	TrD PDU header, bit	C	)	
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	891
	matching	
	RM attribute	160-200

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

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.12.1.1.3 TFCS

TFCS size	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 I	RB	RAB
Layer RLC	Logical channel type		DTCH
KLC		туре	-
	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 bits/TTI after channel coding		3948(alt. 7884)
	Max number of bits/radio frame before rate		1974(alt. 1971)
	matching		·
	RM attribute		150-195

## 6.10.3.4.1.13.1.1.2 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			DTOLL
RLC	Logical channel t	ype	DTCH
	RLC mode		TM
	Payload sizes, bi	t	640
	Max data rate, by	os	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	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	·
ĺ	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	<u> </u>
	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	RAB/Signalling RB	RAB
Layer RLC	Logical channel type	DTCH
IXLO	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

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

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

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

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

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/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
	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

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 Layer	RAB/Signalling RB	RAB
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 Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
1.20	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 matching	267 (alt. 270)
	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

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/Sig	nalling RB	RAB
RLC	Logical o	channel type	DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320
	Max data	a rate, bps	64000
	AMD PD	OU header, bit	16
MAC	MAC header, bit		0
	MAC mu	ıltiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	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
	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 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
	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/Signa	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload siz	zes, bit	320
	Max data r	rate, bps	384000
	AMD PDU	header, bit	16
MAC	MAC head	ler, bit	0
	MAC multi	plexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, b		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 attribut	te	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 Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A

Higher Layer	RAB/Signalling RB	RAB
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	12x336
	TF6, bits	N/A (alt. 16 x336)
	TF7, bits	N/A (alt. 20 x336)
	TF8, bits	N/A (alt. 24 x336)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	12684(alt. 25368)
	Max number of bits/radio frame before rate matching	12684 (alt. 12684)
	RM attribute	110-150

6.10.3.4.1.32.2.1.2 Transport channel parameters for 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		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 number 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
	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, 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)
	(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, 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, 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, TF1, 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)

## 6.10.3.4.1.39.2.2 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, TF1, 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)		

## 6.10.3.4.1.40.1.2 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, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(alt. (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(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))

# 6.10.3.4.1.42.2.2 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, 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)

## 6.10.3.4.1.44.1.2 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, 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, TF12)
	(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))

## 6.10.3.4.1.44.2.2 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, 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, 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, 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, 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)

#### 6.10.3.4.1.48.2.2 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

6.10.3.4.1.49

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

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

6.10.3.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.49.1.1.4 **TFCS**

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, 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)

## 6.10.3.4.1.49.1.2 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	channel type	DTCH	SHCCH
	RLC mo	de	AM	TM
	Payload	sizes, bit	320	168
	Max data	a rate, bps	64000	16800
	AMD/Trl	D PDU header, bit	16	0
MAC	MAC he	ader, bit	0	0
	MAC mu	ultiplexing	N/A	N/A
Layer 1	TrCH typ	oe .	USCH	USCH
	TB sizes		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	type	TC	CC ½
	CRC, bit		16	16
	Max number of bits/TTI after channel coding		4236	384
	Max number of bits/radio frame before rate matching		2118	384
	RM attril	bute	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 SRBs for SHCCH mapped on RACH

RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
User of Radio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC
				High prio	Low prio	
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
	User of Radio Bearer  Logical channel type RLC mode Payload sizes, bit Max data rate, bps	User of Radio Bearer RRC  Logical channel type CCCH RLC mode TM Payload sizes, bit 168 Max data rate, bps 16800 AMD/UMD/TrD PDU 0	User of Radio Bearer         RRC         RRC           Logical channel type         CCCH         DCCH           RLC mode         TM         UM           Payload sizes, bit         168         136           Max data rate, bps         16800         13600           AMD/UMD/TrD PDU         0         8	User of Radio Bearer         RRC         RRC         RRC           Logical channel type         CCCH         DCCH         DCCH           RLC mode         TM         UM         AM           Payload sizes, bit         168         136         128           Max data rate, bps         16800         13600         12800           AMD/UMD/TrD PDU         0         8         16	User of Radio Bearer         RRC         RRC         RRC         NAS_DT High prio           Logical channel type         CCCH         DCCH         DCCH         DCCH           RLC mode         TM         UM         AM         AM           Payload sizes, bit         168         136         128         128           Max data rate, bps         16800         13600         12800         12800           AMD/UMD/TrD PDU         0         8         16         16	User of Radio Bearer         RRC         RRC         RRC         NAS_DT High prio         NAS_DT Low prio           Logical channel type         CCCH         DCH         DCH         DCH         DCH           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

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 channel multiplexing							
Layer 1	TrCH type		RACH						
	TB sizes, bit	170	170	170	170	170	170		
	TFS TF0, bits	1x170							
	TTI, ms	10							
	Coding 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
1	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 ½
	CRC, bit	16	16
	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
	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	Logical ch	nannel type	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH	
	RLC mod	le	UM	UM	AM	AM	AM	UM	TM	
	Payload s	sizes, bit	160	136 or 120 (note)	128	128	128	160	168	
	Max data		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/UMI header, b	D/TrD PDU it	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 logical channel multiplexing						
Layer 1	TrCH type	е	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	ре				CC ½				
	CRC, bit			16						
	Max num		1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	
	bits/TTI after channel coding		2292)	2292)	2292)	2292)	2292)	2292)	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 ½
	CRC, bit	16	16
	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
Î	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.

#### 6.10.3.4.2.2.2.2Physical 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
Ì	CRC, bit	16	16
	Max number of bits/TTI after channel coding	64524 (alt. 129036)	384
	Downlink: Max number of bits/radio frame	64524 (alt. 64518)	384
	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		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/sig	gnalling RB	SRB#0	SRB#5	
	User of	Radio Bearer	RRC	RRC	
RLC	Logical	channel type	CCCH	SHCCH	
	RLC m	ode	TM	TM	
	Payload	d sizes, bit	168	168	
	Max da	ta rate, bps	16800	16800	
	TrD PD	U header, bit	0	0	
MAC	MAC he	eader, bit	2	2	
	MAC m	ultiplexing	2 logical chann	2 logical channel multiplexing	
Layer 1	TrCH ty	<i>у</i> ре	RA	CH	
	TB size	s, bit	1	70	
	TFS	TF0, bits	1x	170	
	TTI, ms	3	10		
	Coding type		CC ½		
	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 6.10.3.4.1.4.1.2.

Physical channel parameters for PUSCH see 6.10.3.4.2.1.1.2.

Physical channel parameters for PRACH see 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/Sig	nalling RB	SRB#0	SRB#5	SRB#6		
layer	User of F	Radio Bearer	RRC	RRC	RRC		
	Logical c	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/Tr[	D PDU header, bit	8	8	0		
MAC	MAC hea	ader, bit		3			
IVIAO	MAC mu	ltiplexing	31	ogical channel multiplex	ing		
	TrCH typ	oe e	FACH				
	TB sizes	, bit	171				
		TF0, bits	0x171				
		TF1, bits	1x171				
	TFS	TF2, bits	2x171				
		TF3, bits	3x171				
Layer 1		TF4, bits	4x171				
Layor .	TTI, ms		10				
	Coding t	ype	CC ½				
	CRC, bit		16				
		nber of bits/TTI after	1528				
	channel						
Ì		nber of bits/radio frame		764			
	before ra	ate matching					

## 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 6.10.3.4.1.4.2.2.

Physical channel parameters for downlink PDSCH see 6.10.3.4.2.1.2.2.

Physical channel parameters for SCCPCH see 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 6.10.3.4.1.4.2.2.

Physical channel parameters for PDSCH see 6.10.3.4.2.2.2.2.

Physical channel parameters for SCCPCH see 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 6.10.3.4.1.4.2.2.

Physical channel parameters for PDSCH see 6.10.3.4.2.3.2.2.

Physical channel parameters for SCCPCH see 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 E	Bearer	RRC
RLC	Logical channe	l type	PCCH
	RLC mode	• •	TM
	Payload sizes,	bit	240 (alt. 80)
	Max data rate,	bps	24000 (alt. 8000)
	TrD PDU head	er, bit	0
MAC	MAC header, b	it	0
	MAC multiplexi	ng	N/A
Layer 1	TrCH type		PCH
	TB sizes, bit		240 (alt. 80)
	TFS	TF0, bts	0x240 (alt. 0x80)
		TF1, bits	1x240 (alt. 1x80)
		TF2, bits	2x240 (alt.2x80)
	TTI, ms		20
	Coding type		CC ½
	CRC, bit		16
	Max number of	bits/TTI before rate	1056 (alt. 400)
	matching		
		bits/radio frame before	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	
	TF	D, bits	0 x363	
	TFS TF	1, bits	1x363	
	TF:	2, 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/rac matching	lio frame before rate	1143	
	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/signalli	ing RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	
layer	User of Rad	io 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	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/7 bit	TrD PDU header,	8	8	16	16	16	0	
MAC	MAC heade	r, bit	3	27 or 43	27	27	27	3	
WIAC	MAC multipl	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		20					
	Coding type	!	CC ½						
		CRC, bit		16					
		r of bits/TTI before	1528 (alt. 2292)						
		rate matching							
		r of bits/radio	764 (alt.1146)						
		e rate matching							
NOTE	RM attribute		<u> </u>		200-				
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 x 1 time slot
	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

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, TF3),
	(TF2, TF2, TF4)
	(alt. (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF0, TF1), (TF0, TF1), (TF1),
	TF0, TF5), (TF0, TF0, TF6), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF1, TF3), (TF0, TF1, TF1, TF3), (TF0, TF1, TF1, TF3), (TT0, TF1, TF1, TF1, TF1, TF1), (TT0, TF1, TF1, TF1, TF1, TF1), (TT0, TT1, 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), (TF4, TF0, TF2), (TF4, TF0, TF2), (TF4, TF0, TF2), (TF4, TF4), (TF4, TF2), (TF4, TF4, TF2), (TF4, TF4, TF2), (TF4, TF4, TF4), (TF4, TF4, TF4), (TF4, TF4, TF4), (TF4, TF4, TF4), (TF4, TF4, TF4, TF4), (TF4, TF4, TF4, TF4, TF4, TF4, TF4, TF4,
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, TF0, TF1), (TF1, TF1, TF2), (TF1, TF2, TF2, TF2), (TF1, TF2, TF2, TF2), (TF1, TF2, TF2, TF2, TF2, TF2, TF2, TF2, TF2
	TF0, TF5), (TF1, TF0, TF6), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF2), (TF1, TF2, TF1), (TF1, TF2, TF2), (TF1, TF3, TF2), (TF1, TF3, TF2), (TF1, TF3, TF2), (TF1, TF3, TF3), (TF1, TF3), (TT1, TF3), (TT1, TF3), (TT1, TT3), (TT1,
	(TF1, TF1, TF4), (TF1, TF1, TF5), (TF1, TF1, TF6), (TF1, TF2, TF0), (TF1, TF2, TF1), (TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF3, TF3), (TT1, TF3, TF3), (TT1, TF3, TF3), (TT1, TT3, TT3), (TT1, TT3, TT3), (TT1, TT3, TT3), (TT1, TT3, TT3), (TT1, TT3,
	TF2), (TF1, TF2, TF3), (TF1, TF2, TF4), (TF1, TF2, TF5), (TF1, TF2, TF6), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF3), (TF3, TF3, TF3, TF3), (TF3, TF3, TF3, TF3), (TF3, TF3, TF3, TF3), (TF3, TF3, TF3, TF3, TF3), (TF3, TF3, TF3, TF3, TF3, TF3, TF3), (TF3, TF3, TF3, TF3, TF3, TF3, TF3, TF3,
	(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, TF1, TF2), (TF2, TF1, TF2), (TF2, TF1, TF3),
	TF2), (TF2, TF3), (TF2, TF4), (TF2, TF2, TF5) (TF2, TF2, TF6))
	11 2 <sub>j</sub> , (11 2, 11 2, 11 3 <sub>j</sub> , (11 2, 11 4 <sub>j</sub> , (11 2, 11 2, 11 3) (11 2, 11 2, 11 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 Coding type		10			
			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 and TFCS 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(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 coding	4236
	Uplink: Max number of bits/radio frame before	2118
	rate matching	
	RM attribute	130-170
NOTE:	This TFI is not applied to TFS for RLC test cases.	

## **TFCS**

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

## 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 coding	4236
	RM attribute	130-170
NOTE: 1	This TFI is not applied to TFS for RLC test cases.	

## **TFCS**

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

## 6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed:

## Transport channel parameters for the Uplink RAB

Higher 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. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so the TFCS is defined as follows.

## **TFCS**

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

Transport channel parameters for the Downlink RAB

See clause 6.10.2.4.1.25.2. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so TFCS is defined as follows.

#### **TFCS**

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

# 6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

### Transport channel parameters for the Uplink RAB

Higher 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

## 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.

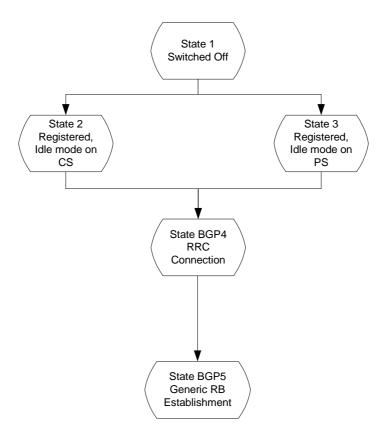


Figure 7.1.1: UE Test States for Basic Generic Procedures

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	<b>←</b>	SYSTEM INFORMATION (BCCH)	Default SI messages
2	<b>←</b>	PAGING TYPE 1 (PCCH)	Sent on appropriate cycle
3	$\rightarrow$	RRC CONNECTION REQUEST (CCCH)	RRC
4	<b>←</b>	RRC CONNECTION SETUP (CCCH)	RRC
5	$\rightarrow$	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC

#### 7.1.2.4 Specific message contents

#### 7.1.2.4.1 **PAGING TYPE 1**

This message is sent from the SS to the UE, using the TM RLC SAP, on the PCCH logical channel:

	Value/Remark PAGING TYPE 1			
Message Type				
UE Information elem	ents			
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

### 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 element	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	As declared in UE ICS		
Establishment cause		As appropriate	
Protocol error indicator			FALSE
Measurement informati	on elements		
Measured results on RAC	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
<b>UE Information Elements</b>		
Initial UE identity	TMSI and LAI	As specified during Registration procedure
		As specified by default 1 cell environment
RB Information Elements		
Use default		
TrCH Information Elements		
Use default		
Frequency info		As specified by default 1 cell environment
Uplink radio resources		
Use default		
Downlink radio resources		
Use default		

## 7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

 $This \ message \ is \ sent \ on \ the \ DCCH \ Logical \ channel.$ 

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		
RB Information Elements		
RAB information for setup	Default parameters for 12.2 kbps speed bearer according to TS 34.108 clause 6 6.10.3.4.1.4 for TDD	ch RAB + 3.4 kbps signalling radio 6.10.2.4.1.4 for FDD and 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

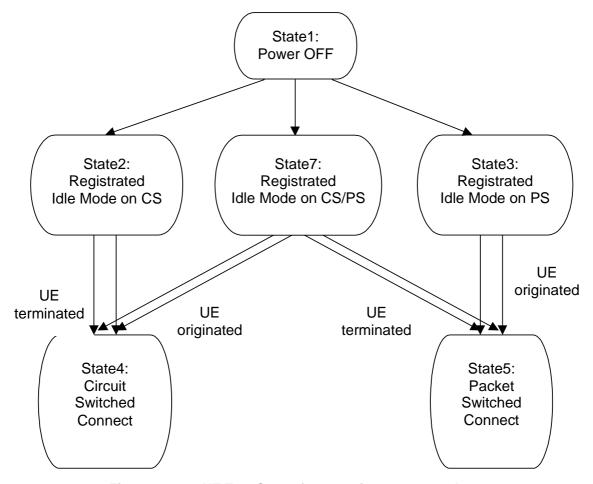


Figure 7.2.1.1: UE Test States for Generic setup procedures

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	< I		LOCATION UPDATING ACCEPT	MM
11	>		TMSI REALLOCATION COMPLETE	MM
12	< F		RRC CONNECTION RELEASE	RRC
13	> RRC CONNECTIO		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	7				
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	>	RRC CONNECTION RELEASE COMPLETE	RRC			
NOTE:	E: Step7 and Step8 are inserted in order to stop T3317 timer in the UE, which starts after transmitting					
	SERVICE 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

The configurations of the reference measurement channels for RF tests are described in TS 34.121 [2] Annex C for FDD and TS 34.122 [5] Annex C for TDD.

#### 7.3.2.4.3 UE test loop mode

The messages in this sub-clause are sent from the SS to the UE, determining the UE test loop mode for the RF tests.

UE test loop mode 1 without DCCH dummy transmission

Default. See clause 9.2.

UE test loop mode 1 with DCCH dummy transmission

Contents of CLOSE UE TEST LOOP: TC

Information Element	Value/remark
UE test loop mode	UE test loop mode 1 DCCH dummy transmission set to "enabled". 00000100B

UE test loop mode 2 without DCCH dummy transmission

Contents of CLOSE UE TEST LOOP: TC

Information Element	Value/remark
UE test loop mode	UE test loop mode 2 DCCH dummy transmission set to "disabled". 00000001B

#### 7.3.2.4.4 Compressed mode

[T.B.D.]

## 7.3.2.4.5 Transmit diversity mode

[T.B.D.]

## 7.3.3 Test procedure for Rx Spurious Emission

#### 7.3.3.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall be operated under RF test conditions.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS)

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

## 7.3.3.3 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 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:	Step7 and Step8 are inserted in order to stop T3317 timer in the UE, which starts after transmitting					
	SERVICE 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

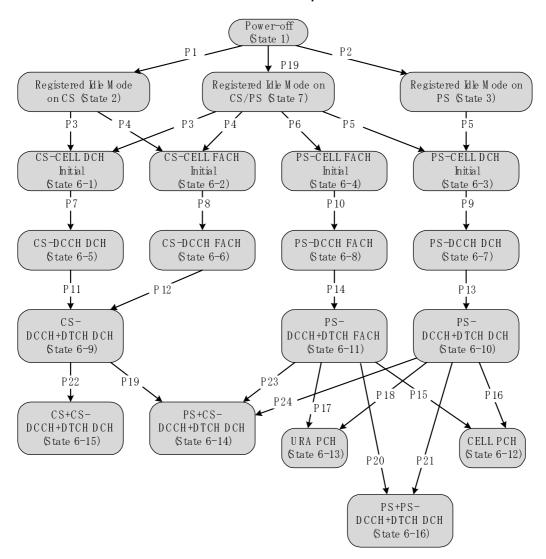


Figure 7.4.1.1: UE RRC test initial states and common procedures

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 BGP6-14	PS+CS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Active	As previous
State BGP6-15	CS+CS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Inactive	As previous
State BGP6-16	PS+PS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Null	As previous	Active	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	Direction	Message	Comments
	UE SS		
1	<	PAGING TYPE 1 (PCCH)	RRC
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	PAGING RESPONSE	RR

#### 7.4.2.1.1.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P4, all specific message contents with the exception of step 3 shall be referred to clause 9 of TS 34.108. For step 3, the message of the same type titled "Transition to CELL\_FACH" in TS 34.123-1 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	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	>		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		
Ī	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.

#### 7.4.2.2.3 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	Direction		Message	Comments
	UE	SS		
1	<	<	AUTHENTICATION REQUEST	MM
2	>		AUTHENTICATION RESPONSE	MM
3	<		SECURITY MODE COMMAND	RRC
4	-	->	SECURITY MODE COMPLETE	RRC
5	<			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	Direction		Message	Comments
	UE	SS		
1	<	<	AUTHENTICATION REQUEST	MM
2	>		AUTHENTICATION RESPONSE	MM
3	<		SECURITY MODE COMMAND	RRC
4	-	->	SECURITY MODE COMPLETE	RRC
5	>		SET UP	CC
6	<		CALL 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	Direction	Message	Comments
	UE SS		
1	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
2	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
3	<	SECURITY MODE COMMAND	RRC
4	>	SECURITY MODE COMPLETE	RRC
5	>	ACTIVATE PDP CONTEXT REQUEST	SM

### 7.4.2.4.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS34.108.

## 7.4.2.5 Radio access bearer establishment procedure for circuit switched calls (procedure P11 and P12)

#### 7.4.2.5.1 Mobile terminating call

#### 7.4.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

#### 7.4.2.5.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.5.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 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	Direction	Message	Comments
	UE SS		
1	<	RADIO BEARER SETUP	RRC RAB SETUP
2	>	RADIO BEARER SETUP COMPLETE	RRC
3	<		CC
4	<	CONNECT	CC
5	>	CONNECT ACKOWLEDGE	CC

#### 7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in 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	Direction		Message	Comments
	UE	SS		
1	<		RADIO BEARER SETUP	RRC RAB SETUP
2	>		RADIO BEARER SETUP COMPLETE	RRC
3	<		ACTIVATE PDP CONTEXT ACCEPT	SM

#### 7.4.2.6.1.4 Specific message contents

For step 1, the messages in 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		
Γ	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	Direc	ction	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	LIDA DOLL
RRC State Indicator	URA_PCH

# 7.4.2.8 Radio access bearer establishment procedure with packet switched sessions for transitions to Multi Call state (procedure P19, 20 and 21)

#### 7.4.2.8.1 Transition to PS+CS-DCCH+DTCH DCH (procedure P19)

#### 7.4.2.8.1.1 Mobile terminating session

#### 7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

#### 7.4.2.8.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.1.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<	<	PAGING TYPE2 (DCCH)	Paging
2	-	->	SERVICE REQUEST	GMM
3	<	<b></b>	AUTHENTICATION AND CIPHERING REQUEST	GMM
4	-	->	AUTHENTICATION AND CIPHERING RESPONSE	GMM
5	<	<	SECURITY MODE COMMAND	RRC
6	-	->	SECURITY MODE COMPLETE	RRC
7	<	<b></b>	REQUEST PDP CONTEXT ACTIVATION	SM
8	-	->	ACTIVATE PDP CONTEXT REQUEST	SM
9	<	<	RADIO BEARER SETUP	RRC RAB SETUP
10	-	->	RADIO BEARER SETUP COMPLETE	RRC
11	<	<b></b>	ACTIVATE PDP CONTEXT ACCEPT	SM

### 7.4.2.8.1.1.4 Specific message contents

FFS

## 7.4.2.8.1.2 Mobile originating sessions

#### 7.4.2.8.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

#### 7.4.2.8.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.1.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	SERVICE REQUEST	GMM
2	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
3	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
4	<	SECURITY MODE COMMAND	RRC
5	>	SECURITY MODE COMPLETE	RRC
6	>	ACTIVATE PDP CONTEXT REQUEST	SM
7	<	RADIO BEARER SETUP	RRC RAB SETUP
8	>	RADIO BEARER SETUP COMPLETE	RRC
9	<	ACTIVATE PDP CONTEXT ACCEPT	SM

#### 7.4.2.8.1.2.4 Specific message contents

**FFS** 

## 7.4.2.8.2 Transition to PS+PS-DCCH+DTCH DCH (procedure P20 and P21)

#### 7.4.2.8.2.1 Mobile terminating session

#### 7.4.2.8.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

#### 7.4.2.8.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	PAGING TYPE2 (DCCH)	Paging
2	>	SERVICE REQUEST	GMM
3	<	SERVICE ACCEPT	GMM
4	<	REQUEST PDP CONTEXT ACTIVATION	SM
5	>	ACTIVATE PDP CONTEXT REQUEST	SM
6	<	RADIO BEARER SETUP	RRC RAB SETUP
7	>	RADIO BEARER SETUP COMPLETE	RRC
8	<	ACTIVATE PDP CONTEXT ACCEPT	SM

#### 7.4.2.8.2.1.4 Specific message contents

**FFS** 

#### 7.4.2.8.2.2 Mobile originating sessions

#### 7.4.2.8.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

#### 7.4.2.8.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.8.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	SERVICE REQUEST	GMM
2	<	SERVICE ACCEPT	GMM
3	>	ACTIVATE PDP CONTEXT REQUEST	SM
4	<	RADIO BEARER SETUP	RRC RAB SETUP
5	>	RADIO BEARER SETUP COMPLETE	RRC
6	<	ACTIVATE PDP CONTEXT ACCEPT	SM

#### 7.4.2.8.2.2.4 Specific message contents

**FFS** 

## 7.4.2.9 Radio access bearer establishment procedure with circuit switched calls for transitions to Multi Call state (procedure P22, P23 and P24)

## 7.4.2.9.1 Transition to CS+CS-DCCH+DTCH DCH (procedure P22)

#### 7.4.2.9.1.1 Mobile terminating call

#### 7.4.2.9.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

#### 7.4.2.9.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.1.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	PAGING TYPE2 (DCCH)	Paging
2	>	PAGING RESPONSE	RR
3	<	SET UP	CC
4	>	CALL CONFIRMED	CC
5	<	RADIO BEARER SETUP	RRC RAB SETUP
6	>	RADIO BEARER SETUP COMPLETE	RRC
7	>	ALERTING	CC (this message is optional)
8	>	CONNECT	CC
9	<	CONNECT ACKNOWLEDGE	CC

7.4.2.9.1.1.4 Specific message contents

**FFS** 

7.4.2.9.1.2 Mobile originating calls

7.4.2.9.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

## 7.4.2.9.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.1.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	ction Message	Comments
	UE SS		
1	>	CM SERVICE REQUEST	MM
2	<	CM SERVICE ACCEPT	MM
3	>	SET UP	cc
4	<	CALL PROCEEDING	cc
5	<	RADIO BEARER SETUP	RRC RAB SETUP
6	>	RADIO BEARER SETUP COMPLETE	RRC
7	<	ALERTING	CC
8	<	CONNECT	CC
9	>	CONNECT ACKNOWLEDGE	cc

7.4.2.9.1.2.4 Specific message contents

FFS

# 7.4.2.9.2 Transition to PS+CS-DCCH+DTCH DCH (procedure P23 and 24)

7.4.2.9.2.1 Mobile terminating call

#### 7.4.2.9.2.1.1 Initial conditions

**System Simulator:** 

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

### 7.4.2.9.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.2.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	PAGING TYPE2 (DCCH)	Paging
2	>	PAGING RESPONSE	RR
3	<	AUTHENTICATION REQUEST	MM
4	>	AUTHENTICATION RESPONSE	MM
5	<	SECURITY MODE COMMAND	RRC
6	>	SECURITY MODE COMPLETE	RRC
7	<	SET UP	CC
8	>	CALL CONFIRMED	CC
9	<	RADIO BEARER SETUP	RRC RAB SETUP
10	>	RADIO BEARER SETUP COMPLETE	RRC
11	>	ALERTING	CC (this message is optional)
12	>	CONNECT	CC
13	<	CONNECT ACKNOWLEDGE	CC

### 7.4.2.9.2.1.4 Specific message contents

**FFS** 

#### 7.4.2.9.2.2 Mobile originating calls

#### 7.4.2.9.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

#### 7.4.2.9.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.9.2.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	CM SERVICE REQUEST	MM
2	<	AUTHENTICATION REQUEST	MM
3	>	AUTHENTICATION RESPONSE	MM
4	<	SECURITY MODE COMMAND	RRC
5	>	SECURITY MODE COMPLETE	RRC
6	>	SET UP	CC
7	<	CALL PROCEEDING	CC
8	<	RADIO BEARER SETUP	RRC RAB SETUP
9	>	RADIO BEARER SETUP COMPLETE	RRC
10	<	ALERTING	CC
11	<	CONNECT	CC
12	>	CONNECT ACKOWLEDGE	lcc

#### 7.4.2.9.2.2.4 Specific message contents

**FFS** 

# 8 Test USIM Parameters

## 8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 3GPP TS 31.120 and 3GPP TS 31.121.

#### 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  $f5^*$ .

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] \parallel AMF[bits 0,1,...14,15]
```

NOTE: For test USIM the  $\mathbf{SQN} = \mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots.46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots.46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots.46,47] \text{ where AUTN is the received authentication token.}$ 

#### 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] || **AMF**[bits 0,1,...14,15] || **MAC**[bits 0,1,...62, 63] Where **SQN**  $\oplus$  **AK**[bits 0,1,...46,47] = **SQN**[bits 0,1,...46,47] XOR **AK**[bits 0,1,...46,47]

### 8.1.2.2 Generation of re-synchronisation parameters in the USIM

For SS to be able to initiate an authentication re-synchronisation procedure a specific AMF value has been defined.

```
AMF<sub>RESYNCH</sub> = AMF[bits 0,1,..14,15] = "1111 1111 1111 1111"
```

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the AMF<sub>RESYNCH</sub> value then the test USIM shall initiate the re-synchronisation procedure.

When the test USIM starts the re-synchronisation procedure, the MAC-S and AK have to be calculated using the functions f1\* and f5\*, which in the test algorithm are identical to f1 and f5, respectively.

#### Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

**XDOUT**[bits 
$$0,1, \dots 126,127$$
] = **K**[bits  $0,1, \dots 126,127$ ] XOR **RAND**[bits  $0,1, \dots 126,127$ ]

#### 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<sub>MS</sub> with AMF\* to obtain CDOUT like this:

```
CDOUT[bits 0,1,...62,63] = SQN<sub>MS</sub>[bits 0,1,...46,47] \parallel AMF*[bits 0,1,...14,15]
```

Where AMF\* assumes a dummy value of all zeros

NOTE: For test USIM the  $\mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTN is the received authentication token.}$ 

For SS and AUC the  $\mathbf{SQN_{MS}} = \mathbf{AUTS}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTS is the received re-synchronisation parameter.}$ 

#### Step 4:

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

```
MAC-S[bits 0,1,...62,63] = f1*(XDOUT, CDOUT) = XDOUT[bits 0,1...62,63] XOR CDOUT[bits 0,1,...62,63]
```

NOTE: In SS and AUC, the XMAC-S calculation is identical to MAC-S.

#### Step 5:

The test USIM calculates the re-synchronisation parameter **AUTS**:

```
\mathbf{AUTS}[\mathsf{bits}\ 0,1,...110,111] \ \ = \ \ \mathbf{SQN_{MS}} \oplus \mathbf{AK}[\mathsf{bits}\ 0,1,...46,47] \ \| \ \mathbf{MAC-S}[\mathsf{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<sub>RESYNCH</sub> value.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter the test USIM calculates the RES, CK IK 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.

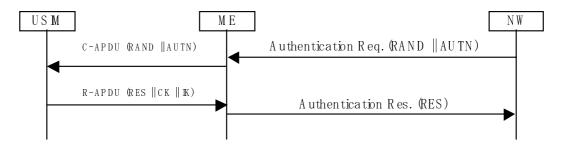


Figure 8.1.2.3.1: Network accepted by UE

#### 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<sub>RESYNCH</sub> value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter The test USIM calculates the RES, CK, IK and XMAC parameters according to clause 8.1.2.1 (step 1 to 4).

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the calculated XMAC value is different from the MAC value received in AUTN then the USIM notifies the ME of the MAC failure and the ME sends an AUTENTICATION FAILURE message to the SS (cause "MAC failure").

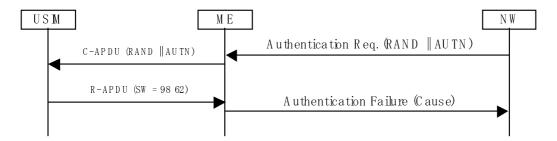


Figure 8.1.2.3.2: MAC failure cases

#### 8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value equal to AMF<sub>RESYNCH</sub>.

The SS sends an authentication request, including RAND and AUTN parameters, to the UE/USIM.

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the AMF field is equal to the AMF $_{RESYNCH}$  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.

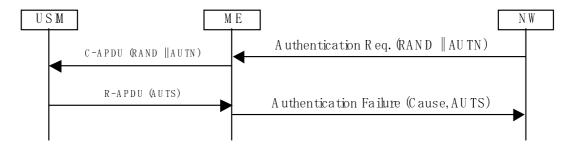


Figure 8.1.2.3.3: SQN failure case

### 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 EFDIR

### 8.3.1.2 EF<sub>ICCID</sub> (ICC Identity)

The programming of this EF is a test house option.

### 8.3.1.3 EF<sub>PL</sub> (Preferred Languages)

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

### 8.3.1.4 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

## 8.3.2 Contents of files at the USIM ADF (Application DF) level

### 8.3.2.1 EF<sub>II</sub> (Language Indication)

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

### 8.3.2.2 EF<sub>IMSI</sub> (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2-9 (HEX):09 10 10 \*\* \*\* \*\* \*\*

"\*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

063-125, 189-251, 315-377, 441-503, 567-629, 693-755, 819-881 or 945-999

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

### 8.3.2.3 EF<sub>Kevs</sub> (Ciphering and Integrity Keys)

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

### 8.3.2.4 EF<sub>KevsPS</sub> (Ciphering and Integrity Keys for Packet Switched domain)

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

### 8.3.2.5 EF<sub>PLMNwAcT</sub> (User controlled PLMN selector with Access Technology)

File size: 5n bytes

Default values (HEX): Bytes 1-3: 32 F4 10 (MCC, MNC) - Translates to 234, 01

Bytes 4-5: 80 00 (Access Technology) – Translates to UTRAN

Bytes 6-8: 32 F4 20 (MCC, MNC)

Bytes 9-10: 80 00 (Access Technology)

Bytes 11-13: 32 F4 30 (MCC, MNC)

•••

••••

••••

Bytes(5n-4) - (5n-2): 32 F4 43 (MCC, MNC)

Bytes (5n-1) - 5n: 80 00 (Access Technology)

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

8.3.2.6 EF<sub>HPLMN</sub> (HPLMN search period)

File size: 1 byte

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

8.3.2.7 EF<sub>ACMmax</sub> (ACM maximum value)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not valid".

# 8.3.2.8 EF<sub>UST</sub> (USIM Service Table)

Services will be allocated and activated as follows:

Services		Activated
Service n°1 :	Local Phone Book	Option
Service n°2 :	Fixed Dialling Numbers (FDN)	Option
Service n°3 :	Extension 2	Option
Service n°4 :	Service Dialling Numbers (SDN)	Option
Service n°5 :	Extension3	Option
Service n°6 :	Barred Dialling Numbers (BDN)	Option
Service n°7 :	Extension4	Option
Service n°8 :	Outgoing Call Information (OCI and OCT)	Option
Service n°9 :	Incoming Call Information (ICI and ICT)	Option
Service n°10:	Short Message Storage (SMS)	Yes
Service n°11:	Short Message Status Reports (SMSR)	Option
Service n°12:	Short Message Service Parameters (SMSP)	Yes
Service n°13:	Advice of Charge (AoC)	Yes
Service n°14:	Capability Configuration Parameters (CCP)	Yes
Service n°15:	Cell Broadcast Message Identifier	Yes
Service n°16:	Cell Broadcast Message Identifier Ranges	Yes
Service n°17:	Group Identifier Level 1	Option
Service n°18:	Group Identifier Level 2	Option
Service n°19:	Service Provider Name	Option
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<sub>ACM</sub> (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not yet implemented".

### 8.3.2.10 EF<sub>GID1</sub> (Group Identifier Level 1)

The programming of this EF is a test house option.

### 8.3.2.11 EF<sub>GID2</sub> (Group Identifier Level 2)

The programming of this EF is a test house option.

### 8.3.2.12 EF<sub>SPN</sub> (Service Provider Name)

The programming of this EF is a test house option.

### 8.3.2.13 EF<sub>PUCT</sub> (Price per Unit and Currency Table)

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

### 8.3.2.14 EF<sub>CBMI</sub> (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

### 8.3.2.15 EF<sub>ACC</sub> (Access Control Class)

The EFACC can be selected by a test house in two types.

Type A;

File size: 2 Bytes

Default values (BIN): Byte 1: 000000\*\*

Byte 2: \*\*\*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

Default values (BIN): Byte 1: 111110\*\*

Byte 2: \*\*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

### 8.3.2.16 EF<sub>FPLMN</sub> (Forbidden PLMNs)

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

### 8.3.2.17 EF<sub>LOCI</sub> (Location Information)

File size: 11 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (TMSI)

Bytes 5-9 (HEX): 42 F6 18 FF FE (LAI)

Byte 10 (HEX): FF (RFU)

Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5-9: LAI-MCC = 246 (bytes 5-6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8-9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

### 8.3.2.18 EF<sub>AD</sub> (Administrative Data)

File size: 4 bytes

Default values Byte 1: 10000000 - (type approval operations)

Byte 2: 000000000

Byte 3: 000000000

Byte 4: 00000010

#### 8.3.2.19 Void

### 8.3.2.20 EF<sub>CBMID</sub> (Cell Broadcast Message Identifier for Data Download)

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

### 8.3.2.21 EF<sub>FCC</sub> (Emergency Call Codes)

The programming of this EF is a test house option.

### 8.3.2.22 EF<sub>CBMIR</sub> (Cell Broadcast Message Identifier Range selection)

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

### 8.3.2.23 EF<sub>PSLOCI</sub> (Packet Switched location information)

File size: 14 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (P-TMSI)

Bytes 5-7 (HEX): FF FF (P-TMSI signature value)

Bytes 8-13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

Bytes 8-13: RAI-MCC = 246 (bytes 8-9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11-12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

### 8.3.2.24 EF<sub>FDN</sub> (Fixed Dialling Numbers)

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

### 8.3.2.25 $EF_{SMS}$ (Short messages)

### 8.3.2.26 EF<sub>MSISDN</sub> (MSISDN)

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

### 8.3.2.27 EF<sub>SMSP</sub> (Short message service parameters)

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

### 8.3.2.28 EF<sub>SMSS</sub> (SMS status)

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

### 8.3.2.29 EF<sub>SDN</sub> (Service Dialling Numbers)

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

### 8.3.2.30 $\mathsf{EF}_{\mathsf{FXT2}}$ (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<sub>SMSR</sub> (Short message status reports)

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

### 8.3.2.33 EF<sub>ICI</sub> (Incoming Call Information)

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

### 8.3.2.34 EF<sub>OCI</sub> (Outgoing Call Information)

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

#### 8.3.2.35 EF<sub>ICT</sub> (Incoming Call Timer)

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

### 8.3.2.36 EF<sub>OCT</sub> (Outgoing Call Timer)

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

### 8.3.2.37 $EF_{EXT5}$ (Extension5)

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

### 8.3.2.38 EF<sub>CCP2</sub> (Capability Configuration Parameters 2)

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

### 8.3.2.39 EF<sub>eMLPP</sub> (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

### 8.3.2.40 EF<sub>AAeM</sub> (Automatic Answer for eMLPP Service)

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

### 8.3.2.41 EF<sub>GMSI</sub> (Group Identity)

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

### 8.3.2.42 EF<sub>Hiddenkev</sub> (Key for hidden phone book entries)

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

#### 8.3.2.43 Void

### 8.3.2.44 EF<sub>BDN</sub> (Barred dialling numbers)

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

### 8.3.2.45 $EF_{EXT4}$ (Extension 4)

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

### 8.3.2.46 EF<sub>CMI</sub> (Comparison method information)

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

### 8.3.2.47 EF<sub>EST</sub> (Enabled service table)

The programming of this EF is a test house option.

### 8.3.2.48 EF<sub>ACI</sub> (Access point name control list)

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

### 8.3.2.49 EF<sub>DCK</sub> (Depersonalisation control keys)

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

### 8.3.2.50 EF<sub>CNL</sub> (Co-operative network list)

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

### 8.3.2.51 EF<sub>START-HEN</sub> (Initialisation values for Hyperframe number)

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

### 8.3.2.52 EF<sub>THRESHOLD</sub> (Maximum value of START)

The programming of this EF is a test house option.

### 8.3.2.53 EF<sub>OPI MNsel</sub> (OPLMN selector)

### 8.3.2.54 EF<sub>PHPLMNAT</sub> (Preferred HPLMN Access Technology)

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

### 8.3.2.55 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

### 8.3.2.56 EF<sub>RPLMNACT</sub> (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<sub>NETPAR</sub> (Network Parameters)

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

## 8.3.3 Contents of DFs at the USIM ADF (Application DF) level

#### 8.3.3.1 Contents of files at the USIM SoLSA level

#### 8.3.3.1.1 EF<sub>SAI</sub> (SoLSA Access Indicator)

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

### 8.3.3.1.2 EF<sub>SLL</sub> (SoLSA LSA List)

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

### 8.3.3.1.3 LSA Descriptor files

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

#### 8.3.3.1.4 Contents of files at the MExE level

#### 8.3.3.1.4.1 EF<sub>MExE-ST</sub> (MExE Service table)

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

#### 8.3.3.1.4.2 EF<sub>ORPK</sub> (Operator Root Public Key)

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

#### 8.3.3.1.4.3 EF<sub>ARPK</sub> (Administrator Root Public Key)

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

### 8.3.3.1.4.4 EF<sub>TPRPK</sub> (Third Party Root Public Key)

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

### 8.3.3.1.4.5 EF<sub>TKCDF</sub> (Trusted Key/Certificates Data Files)

### 8.3.3.2 Contents of files at the DF PHONEBOOK level

### 8.3.3.2.1 EF<sub>PBR</sub> (Phone Book Reference file)

The programming of this EF is a test house option.

### 8.3.3.2.2 EF<sub>IAP</sub> (Index Administration Phone book)

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

#### 8.3.3.2.3 EF<sub>ADN</sub> (Abbreviated dialling numbers)

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

### 8.3.3.2.4 $EF_{EXT1}$ (Extension1)

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

### 8.3.3.2.5 EF<sub>PBC</sub> (Phone Book Control)

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

### 8.3.3.2.6 EF<sub>GRP</sub> (Grouping file)

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

#### 8.3.3.2.7 EF<sub>AAS</sub> (Additional number Alpha String)

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

### 8.3.3.2.8 EF<sub>GAS</sub> (Grouping information Alpha String)

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

### 8.3.3.2.9 EF<sub>ANR</sub> (Additional Number)

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

### 8.3.3.2.10 EF<sub>SNE</sub> (Second Name Entry)

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

#### 8.3.3.2.11 EF<sub>CCP1</sub> (Capability Configuration Parameters 1)

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

### 8.3.3.2.12 Phone Book Synchronisation

#### 8.3.3.2.12.1 EF<sub>UID</sub> (Unique Identifier)

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

### 8.3.3.2.12.2 EF<sub>PSC</sub> (Phone book Synchronisation Counter)

8.3.3.2.12.3 EF<sub>CC</sub> (Change Counter)

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

8.3.3.2.12.4 EF<sub>PUID</sub> (Previous Unique Identifier)

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

8.3.3.2.13 EF<sub>EMAIL</sub> (e-mail address)

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

8.3.3.3 Contents of files at the DF GSM level (Files required for GSM Access)

8.3.3.3.1  $EF_{Kc}$  (GSM Ciphering key Kc)

File size: 9 Bytes

Default values (HEX): Bytes 1-8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

8.3.3.3.2 EF<sub>KcGPRS</sub> (GPRS Ciphering key KcGPRS)

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

8.3.3.3.3 Void

8.3.3.3.4 EF<sub>CPBCCH</sub> (CPBCCH Information)

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

8.3.3.5 EF<sub>InvScan</sub> (Investigation Scan)

The programming of this EF follows default parameter.

### 8.3.4 Contents of EFs at the TELECOM level

### 8.3.4.1 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

8.3.4.2  $EF_{EXT1}$  (Extension1)

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

8.3.4.3 EF<sub>ECCP</sub> (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF<sub>SUME</sub> (SetUpMenu Elements)

The programming of this EF is a test house option.

### 8.3.4.5 EF<sub>ARR</sub> (Access rule reference)

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

### 8.3.5 Contents of DFs at the TELECOM level

### 8.3.5.1 Contents of files at the DF<sub>GRAPHICS</sub> level

### 8.3.5.1.1 EF<sub>IMG</sub> (Image)

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

#### 8.3.5.1.2 Image Instance Data Files

### 8.3.5.2 Contents of files at the DF<sub>PHONEBOOK</sub> under the DF<sub>TELECOM</sub>

The programming of this EF is a test house option.

# 9 Default Message Contents

# 9.1 Default Message Contents for Signalling

# 9.1.1 Default RRC Message Contents (FDD)

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of TS 34.123-1, shall be transmitted and checked by the system simulator.

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

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements which are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

### **Default SYSTEM INFORMATION:**

NOTE:

SYSTEM INFORMATION BLOCK TYPE 1 (except for PLMN type "GSM-MAP"), SYSTEM INFORMATION BLOCK TYPE 8, SYSTEM INFORMATION BLOCK TYPE 9, SYSTEM INFORMATION BLOCK TYPE 10, SYSTEM INFORMATION BLOCK TYPE 14, SYSTEM INFORMATION BLOCK TYPE 15 and SYSTEM INFORMATION BLOCK TYPE 16 messages are not used.

### Contents of ACTIVE SET UPDATE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects one integer between 0 to 3
Integrity check info	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.
<ul> <li>RRC message sequence number</li> </ul>	SS provides the value of this IE, from its internal counter.
Activation time	now
New U-RNTI	Not Present
CN information info	Not Present

Information Element	Value/remark
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: $\ensuremath{\mathsf{AM}}$

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.

# 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.
<ul> <li>Message authentication code</li> </ul>	This IE is checked to see if it is present. The value is
	compared against the XMAC-I value computed by SS.
- RRC Message sequence number	This IE is checked to see if it is present. The value is
OTA DT L : 4	used by SS to compute the XMAC-I value.
START List	Checked to see if the 'CN domain identity' and 'START'
ONL de marin identific	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 Checked to see if it is set to 'FALSE'
AM_RLC error indication (RB2, RB3 or RB4)	Checked to see if it is set to 'FALSE'
AM_RLC error indication (RB>4) Cell update cause	See the test content
Failure cause	Checked to see if it is absent
RB timer indicator	Oneoned to see in it is absent
	Checked to see if it is set to 'FALSE'
•	
• • • • • • • • • • • • • • • • • • •	
RB timer indicator - T314 expired - T315 expired Measured results on RACH	Checked to see if it is set to 'FALSE' Checked to see if it is set to 'FALSE' 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
	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.
<ul> <li>message authentication code</li> </ul>	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	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 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	N ( D
DL Transport channel information common for all	Not Present
transport channels	Not Descript
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 Not Brooms
- 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.
<ul> <li>Message authentication code</li> </ul>	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
- Entered parameter	bit b0 being the least significant.
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
- Periodical Reporting/Event Trigger Reporting	Periodical reporting
Mode	- onosiosi roporung
Additional measurement list	Not Present
CHOICE Measurement type	Intra-frequency measurement
- Intra-frequency measurement	milia moquency modedicinent
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not present
- New intra-frequency cell	Not procont
- 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	1 00
- Primary scrambling code	Different from the Default setting in TS34.108 clause 6.1
- Filliary Sciambiling code	(FDD)
- Primary CPICH Tx power	Not Present
- TX Diversity indicator	FALSE
- Cells for measurement	Not present
- Intra-frequency measurement quantity	Not Present
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- 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 set cells	
- 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 detected set cells	Not Present
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored cells on
	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
21 311 Somprossed mode status inio	11011100011

# 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	
<ul> <li>Intra-frequency measured results</li> </ul>	
- Cell measured results	
- Cell Identity	Not present
- Cell synchronisation information     - Primary CPICH info	Checked that this IE is absent
- Primary scrambling code	Different from the Default setting in TS34.108 clause 6.1 (FDD)
- CPICH Ec/N0	Checked that this IE is absent
- CPICH RSCP	Checked that this IE is present
- Pathloss	Checked that this IE is absent
Measured results on RACH	Checked that this IE is absent
Additional measured results	Checked that this IE is absent
Event results	Checked that this IE is absent

# Contents of PAGING TYPE 1 message: TM (Speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
<ul> <li>CHOICE Used paging identity</li> </ul>	CN identity
- Paging cause	Terminating 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.
<ul> <li>message authentication code</li> </ul>	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.

# Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

Message Type  A1, A2, A3, A4, A5, A6  RRC transaction identifier integrity check info  - message authentication code  - message authentication code  - RRC message sequence number  - RRC sequence info  - CRUNI	Information Element	Condition	Value/remark
RRC transaction identifier Integrity check info  - message authentication code - RRC message sequence number - Integrity protection mode info - Ciphering mode info - Ciph	Message Type	A1, A2, A3,	
Integrity check info  Integrity check info  Integrity check info  Integrity protection is indicated to be active, this IE is dependent on IXIT 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.  Integrity protection mode info Ciphering mode info Activation time Activat	BBO ( C ) I GE	A4, A5, A6	
statements in TS 3.4.123-2. 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.  Scalculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter.  Not Present Not			
- message authentication code - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info Activation time A	Integrity check into		
with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.  - message authentication code  - RRC message sequence number  Integrity protection mode info Ciphering mode info Ciphering mode info Activation time  Activation time  A1, A2, A3 Activation time  A4, A5, A6 Activation time  A1, A2, A3 A4, A5, A6 Not Present New C-RNTI  A4 New C-RNTI  A5, A6 Not Present Not Pre			
- message authentication code  - message sequence number  Integrity protection mode info Ciphering mode info Activation time Activation time Activation time Activation time Activation time New C-RNTI A1, A2, A3, A6, A6 Not Present Not			
- message authentication code - RRC message sequence number  Integrity protection mode info Ciphering mode			
- message authentication code - RRC message sequence number  Integrity protection mode info Ciphering to m			
RRC message sequence number  Integrity protection mode info Ciphering mode info Activation time A1, A2, A3 A4, A5, A6 Activation time A1, A2, A3 A1, A2, A3 A2, A5, A6 Not Present	- message authentication code		
- RRC message sequence number  Integrity protection mode info Ciphering mode info Activation time Activation time Activation time New U-RNTI New C-RNTI New C-RNTI A1, A2, A3 A4, A5, A6  Not Present	moodage admonitodation code		
Integrity protection mode info Ciphering mode info Activation time Activation	- RRC message seguence number		
Integrity protection mode info Ciphering mode info Activation time Activation	Titte message sequence number		
Ciphering mode info Activation time Activation	Integrity protection mode info		Not Present
Activation time New U-RNTI New C-RNTI New C-RNTI A1, A2, A3, A5, A6 RRC State indicator A5, A6 RRC State indicator A1, A2, A3, A7, A5, A6 RRC State indicator A1, A2, A3, A7, A5, A6 RRC State indicator A1, A2, A3, A7, A6 RRC State indicator A5, A6 RRC State indicator A1, A2, A3, A5 Rot Present Not Present A1, A2, A3, A1 Rot Present Not Present			Not Present
Activation time New U-RNTI New C-RNTI New C-RNTI A1, A2, A3, Not Present A4  Not Present Not Present Not Present Not Present A4  A5, A6  Not Present A6, A5, A6  Not Present A7, A2, A3, Not Present A8, A6, A6  RRC State indicator A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A4  A4  RRC State indicator A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A1, A2, A3, A6  CELL_FACH A1, A2, A3, Not Present A1, A2, A3, A6  CELL_FACH A1, A2, A3, A6  CELL_FACH A1, A2, A3, A7  Not Present A1,		A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256
New C-RNTI	Activation time	A4, A5, A6	
A4   A5, A6   1010 1010 1010 1010 1010 1010	New U-RNTI		Not Present
New DSCH-RNTI New DSCH-RNTI A1, A2, A3, A4, A5, A6 RRC State indicator A1, A2, A3, A4, A5, A6 RRC State indicator A1, A2, A3, A4 RRC State indicator A5, A6 CELL_DCH A5, A6 CELL_DCH CHAPPER	New C-RNTI		Not Present
New DSCH-RNTI	N. O. DNITI		14040 4040 4040 4040
RRC State indicator  RRC State indicator  A1, A2, A3, A4  RRC State indicator  A5, A6  CELL_FACH  UTRAN DRX cycle length coefficient  A1, A2, A3, A4, A5, A6  CN information info URA identity Downlink counter synchronisation info - UARFCN uplink (Nu) - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power CHOICE channel requirement CHOICE channel requirement - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink PDSCH information  Downlink PDSCH information  Downlink PDCH information  Downlink pDCH power control infomation - DPC mode - DPC mode - CFN-targetSFN frame offset - Downlink DPCH power control infomation - DPC mode - O (single)			
RRC State indicator  RRC State indicator  RRC State indicator  A5, A6  A4  A1, A2, A3, A1, A2, A3, A4, A5, A6  CILL_FACH  Not Present	New DSCH-RNTI		Not Present
A5, A6 CELL_FACH  UTRAN DRX cycle length coefficient A1, A2, A3, A4, A5, A6 CN information info URA identity Downlink counter synchronisation info Frequency info - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power CHOICE channel requirement CHOICE channel requirement A1, A2, A3, - Uplink DPCH power control info - DPCCH power fortiol Algorithm - TPC step size - Scrambling code type - TFCI existence - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink DPSCH information  Downlink PDSCH information  Downlink PDSCH information  Downlink information common for all radio links - Downlink Information common for all RL - Timing indicator - DPC mode  A5, A6 - CELL_FACH - Not Present	DDC State indicator		CELL DON
RRC State indicator UTRAN DRX cycle length coefficient UTRAN DRX cycle length coefficient A1, A2, A3, A4, A5, A6 CN information info URA identity Downlink counter synchronisation info Frequency info - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power CHOICE channel requirement CHOICE channel requirement - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information Downlink information common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPCCH power control information - DPCCH power control information - DOWnlink DPCH power control information - Dowlink DPCH power control information - Downlink DPCH power control information - Dowlink DPCH power control information - Downlink DPCH power control information - Dowlink DPCH power co	RRC State Indicator		CELL_DCH
UTRAN DRX cycle length coefficient  A1, A2, A3, A4, A5, A6  Not Present	RRC State indicator		CELL FACH
A4, A5, A6  Not Present Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequenc			
CN information info URA identity Downlink counter synchronisation info Frequency info - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code type - Number of DPDCH - Number of PBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information - Downlink information common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode  - Downlink DPCH power control information - DPC mode  - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode  - UARFCN uplink (Nu) - Reference to clause 5.1 Test frequencies - Reference to Lause 5.1 Test frequencies - Ala, A2, A3, - A4, A3, - A4, A5, A6 - Downlink DPCH information - Decomplex by the power - A1, A2, A3, - A4, A5, A6 - Downlink DPCH information - Decomplex by the power - A1, A2, A3, - A4, A5, A6 - Downlink DPCH information - Decomplex by the power - A1, A2, A3, - A4, A5, A6 - Downlink DPCH information - Decomplex by the power - A1, A2, A3, - A4, A5, A6 - A1, A2, A3, - A4, A5	Comment of the configuration		
URA identity Downlink counter synchronisation info Frequency info  - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power  CHOICE channel requirement  - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information - Downlink information common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - DPC mode - DPC mode - DPC mode - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - DPC mode - DPC mode - O (single)	CN information info	, -, -	Not Present
Downlink counter synchronisation info Frequency info			
Frequency info			Not Present
- UARFCN downlink (Nd)  Maximum allowed UL TX power  CHOICE channel requirement  CHOICE channel requirement  - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink IPDSCH information  Downlink Information common for all radio links - Downlink IPCH power control information - DPC mode  Reference to Clause 5.1 Test frequencies 33dBm Not Present  A1, A2, A3, A4, A5, A6  Not Present  A1, A2, A3, A4, A5, A6  Not Present  A1, A2, A3, A4, A5, A6  Not Present  A1, A2, A3 A4, A5, A6  Not Present  O (single)	Frequency info		
Maximum allowed UL TX power CHOICE channel requirement CHOICE channel requirement A5, A6 Not Present Uplink DPCH power control info - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink DPCH info common for all RL - Timing indicator - DPC mode - DPC mode  A1, A2, A3 A4, A5, A6 - Downlink DPCH info common for all RL - Timing indicator - DPC mode  A1, A2, A3 - Downlink DPCH power control information - DPC mode  A5, A6 Not Present  Uplink DPCH info A1, A2, A3 A4, A5, A6 Not Present  Uplink DPCH info Not Present  Uplink DPCH info Not Present  Uplink DPCH info Not Present  Open and Parameter - A1, A2, A3 A4, A5, A6 Not Present  Uplink DPCH info Not Present  A1, A2, A3 A4, A5, A6 Not Present  Uplink DPCH info Not Present  A1, A2, A3 A4, A5, A6 Not Present  A2, A3 A4, A5, A6 Not Present  A2, A3 A4, A5, A6 Not Present  A4  A5, A6 Not Present  A6  A1, A2, A3 A4, A5, A6 Not Present  A1, A2, A3 A4, A5, A6 Not Present  A2, A3 A4, A5, A6 Not Present  A3, A2, A3 A4, A5, A6 Not Present  A4  A1, A2, A3 A4, A5, A6 Not Present  A1, A2, A3 A4, A5, A6 A5, A6 A6 A7, A2, A3 A			
CHOICE channel requirement CHOICE channel requirement A1, A2, A3, A4  - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink DPCH info common for all radio links - Downlink DPCH info common for all RL - Timing indicator - DPC mode  A1, A2, A3 A4, A5, A6  Not Present  -6dB - 1 frame -7 frames -6dB - 1 frame -7 frames -6dB - 1 frame -6dB - 1 frame -7 frames -6dB -1 frame -6dB -6dB -1 frame -6dB -6dB -1 frame -6dB -1 frame -6dB -1 frame -6dB -1 frame -6dB -6dB -1 frame -6dB -6dB -1 frame -6dB -1 frame -6dB -1 frame -6dB -1 frame -6dB -6dB -1 frame -6dB -6dB -6dB -6dB -6dB -6dB -6dB -6dB			
CHOICE channel requirement  - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - DPC mode  A1, A2, A3, A4  A4, A5, A6 - Downlink DPCH power control information - DPC mode  A1, A2, A3, A4  A4, A5, A6  A4, A5, A6  A1, A2, A3  A4, A3, A6  - Olymlink DPCH power control information - DPC mode  A1, A2, A3, A4  A4, A5, A6  A1, A2, A3			
- Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information - DPC mode - DPC mode - DPC mode - DPC mode - DOWNLINK DPCH power control information - DPC mode - DOWNLINK DPCH power control information - DPC mode - SRB delay - 1 frame - 6dB - 1 frame - 6dB - 1 frame - 7 frames - Algorithm - 1 dB - Long - 0 (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Refer			
- Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink information common for all radio links - Downlink DPCH power control information - DPC mode - DPC mode - CFN-targetSFN frame offset - DDC mode - Control Algorithm - 1 frame - 6dB - 1 frame - 7 frames - Algorithm - 1dB - Long - 0 (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Ref	CHOICE channel requirement		Uplink DPCH info
- DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink information common for all RL - Timing indicator - DPC mode - DPC mode - SRB delay - 7 frames Algorithm1 - 1 ftame - Algorithm1 - 1 ftame - Algorithm1 - Algorithm1 - Algorithm1 - IdB - Long - 0 (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Reference to TS34.	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A4	
- PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink DPCH info common for all RL - Timing indicator - DPC mode - DPC mode - SRB delay - Algorithm1 - 1dB - Long - 0 (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Not Present - Maintain - Not Present - O (single)			C-ID
- SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - DPC mode  - SRB delay - Algorithm1 - IdB - Ida - Id			
- Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink DPCH info common for all RL - Timing indicator - Dev mode - Downlink DPCH power control information - DPC mode  - Scrambling code type - Und Balance - O (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - A1, A2, A3, A4, A5, A6 - Downlink DPCH information - DPC mode  A1, A2, A3 -			
- TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - DPC mode  - Scrambling code type - O (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - PDD - Not Present  - A1, A2, A3, A4, A5, A6 - Not Present  - O (single)			
- Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - DPC mode  - Scrambling code type - (0 to 16777215) - Not Present(1) - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - Reference to TS34.108 clause 6.10 - Parameter Set - A1, A2, A3, A4, A5, A6 - Not Present  A1, A2, A3 - Not Present  Maintain - Not Present  Maintain - Of (single)			
- Scrambling code number - Number of DPDCH - spreading factor  - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  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 - DPC mode  O (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6			
- Number of DPDCH - spreading factor  - TFCI existence - TFCI existence - Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode  Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS44.108 clause 6.10 Parameter Set Reference to TS44.108 clause 6.10 Parameter Set Reference to TS44.108 clause 6.10 Parameter Set			
- spreading factor  - TFCI existence  - Number of FBI bit  - Puncturing Limit  CHOICE Mode  - Downlink PDSCH information  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 - DPC mode  Reference to TS34.108 clause 6.10 Parameter Set			
Parameter Set Reference to TS34.108 clause 6.10 Parameter Set			` '
- TFCI existence  - Number of FBI bit  - Puncturing Limit  CHOICE Mode  - Downlink PDSCH information  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  - DPC mode  Reference to TS34.108 clause 6.10  Parameter Set		1	
- Number of FBI bit - Puncturing Limit  CHOICE Mode - Downlink PDSCH information  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 - DPC mode  Parameter Set Reference to TS34.108 clause 6.10 Parameter Set	- TFCI existence	1	
Parameter Set Reference to TS34.108 clause 6.10 Parameter Set  Reference to TS34.108 clause 6.10 Parameter Set  A1, A2, A3, A4, A5, A6  - Downlink PDSCH information  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 - DPC mode  Parameter Set Reference to TS34.108 clause 6.10 Parameter Set  Reference to TS34.108 clause 6.10 Parameter Set  Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set  Reference to TS34.108 clause 6.10 Parameter Set  Reference to TS34.108 clause 6.10 Parameter Set  Reference to TS34.108 clause 6.10 Parameter Set  Not Present  Maintain Not Present  O (single)		1	
- Puncturing Limit  Reference to TS34.108 clause 6.10 Parameter Set  A1, A2, A3, A4, A5, A6  - Downlink PDSCH information  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 - DPC mode  Reference to TS34.108 clause 6.10 Parameter Set  A1, A2, A3  Not Present  Maintain Not Present  O (single)	- Number of FBI bit		
CHOICE Mode  - Downlink PDSCH information  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 - DPC mode  Parameter Set  A1, A2, A3, A4, A5, A6  Not Present  Maintain Not Present  O (single)		1	
CHOICE Mode  - Downlink PDSCH information  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 - DPC mode  A1, A2, A3, A4, A5, A6  Not Present  Maintain Not Present  O (single)	- Puncturing Limit	1	
- Downlink PDSCH information  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 - DPC mode  A4, A5, A6  Not Present  A1, A2, A3  Maintain Not Present  O (single)	QUOIDE M. I	1 1 1 2 2 2	
- Downlink PDSCH information  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 - DPC mode  Not Present  Maintain Not Present  O (single)	CHOICE Mode		FDD
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 - DPC mode  A1, A2, A3  Maintain Not Present  0 (single)	- Downlink PDSCH information	A4, A5, A6	Not Present
- Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode  Maintain Not Present  0 (single)		A1. A2. A3	1100111
- Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode  Maintain Not Present  0 (single)		7.1,7.2,7.0	
- CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode  Not Present  0 (single)		1	Maintain
- Downlink DPCH power control information - DPC mode 0 (single)			
- DPC mode 0 (single)		1	
	- DPC mode	1	
	- CHOICE mode	<u> </u>	

Information Element	Condition	Value/remark
- Power offset P <sub>Pilot-DPDCH</sub>		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10
Oproduing ractor		Parameter Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10
- TFCI existence		Parameter Set Reference to TS34.108 clause 6.10
- CHOICE SF		Parameter Set Reference to TS34.108 clause 6.10
- DPCH compressed mode info		Parameter Set Not Present
- TX Diversity mode		None
- SSDT information		1 10110
		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
		0
- Power offset P <sub>Pilot-DPDCH</sub>		
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10
		Parameter Set
<ul> <li>Fixed or Flexible Position</li> </ul>		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
DDOUL managed manages in fa		Parameter Set
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step of 512
Downlink information common for all radio links	A5, A6	Not Present
Downlink information for each radio links	A1, A2,A3	
- Choice mode	, ,	FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
DDCCH with CHO DOH into		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	1	Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value (as
	1	currently stored in SS) mod 38400
- Power offset P <sub>Pilot-DPDCH</sub>		0
- Secondary CPICH info	1	Not Present
- DL channelisation code		
- Secondary scrambling code		5
- Spreading factor		Reference to TS34.108 clause 6.10
Opticating factor		Parameter Set
- Code number		0
		-
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity	1	Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>		Not Present
- SCCPCH information for FACH	<u> </u>	Not Present
Downlink information for each radio links	A4	
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
a., starrolling soul		6.1 (FDD)
	i .	
- PDSCH with SHO DCH info		Not Present

Information Element	Condition	Value/remark
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		
- CHOICE mode		FDD
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value
		mod 38400
- Power offset Ppilot-DPDCH		0
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		5
- Spreading factor		Reference to TS34.108 clause 6.10
Code mumber		Parameter Set
- Code number		0 No shange
- Scrambling code change - TPC combination index		No change
		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	A5	Not i lesent
- Choice mode	710	FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
Timaly columning code		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 a CN domain. Else, this IE is absent.
Radio bearer uplink ciphering activation time info Uplink counter synchronisation info	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
- Message authentication code	absent. This IE is checked to see if it is present. The value is
- RRC Message sequence number	compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is
Failure cause	used by SS to compute the XMAC-I value. 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
DDC	writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.  Not Present
Integrity protection mode info Ciphering mode info	Not Present Not Present.
Activation time	Not Present.   (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	0000 0001P
- RAB identity	0000 0001B CS domain
- CN domain identity - NAS Synchronization Indicator	Not Present
- NAS Synchronization indicator - 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	
- Information for each multiplexing option - RLC logical channel mapping indicator	Not Present
- RLC logical channel mapping indicator     - Number of uplink RLC logical channels	Not Present
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	1.
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6 Not Present
DL DSCH Transport channel identity     Logical channel identity	Not Present Not Present
- Logical channel identity - RB identity	Not Present
- RB identity - 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 Droppy
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1 DCH
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>	DCH 2
- OL Transport Ghanner Identity	4

Information Florage	Valuationarile
Information Element	Value/remark
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
MAC logical channel priority     Downlink RLC logical channel info	6
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	
<ul> <li>Information for each multiplexing option</li> </ul>	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
Downlink RLC logical channel info     Number of downlink RLC logical channels	1
- Number of downlink REC logical charmers - Downlink transport channel type	1 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 reposted for TCC 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
- CIFC - Power offset information	Neierence to 1904. 100 clause 0. 10.2.4 Farameter 381
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Signalled
Griolog Gairri actors	Gain Factors)
- Gain factor βc	11 (below 64 kbps)
	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	

#### Information Element

- CHOICE Transport channel type
- Dynamic Transport format information - RLC Size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical Channel list
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Uplink transport channel type
- UL Transport channel identity
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of Transport blocks
- Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical Channel list
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Uplink transport channel type
- UL Transport channel identity
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of Transport blocks
- Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical Channel list
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Uplink transport channel type
- UL Transport channel identity
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of Transport blocks - Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical Channel list - Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

#### Value/remark

Dedicated transport channels

Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Not Present

Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set DCH

2

Dedicated transport channels

Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Not Present

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Reference to TS34.108 clause 6.10 Parameter Set DCH

Dedicated transport channels

Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Not Present

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Reference to TS34.108 clause 6.10 Parameter Set DCH

Dedicated transport channels

Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Not Present

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Information Element	Value/remark
CHOICE mode	FDD Value/remark
- 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 Deleted TrCH information list	Same as UL
Added or Reconfigured TrCH information list	Not Present 3 DCHs
Added or Reconfigured DL TrCH information	3 DOLIS
- 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
- Downlink transport channel type	DCH 7
- DL Transport channel identity	7 Same as UL
- CHOICE DL parameters - Uplink transport channel type	DCH
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	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 Dropont
- Downlink transport channel type	Not Present 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
Frequency info	Not Present
Maximum allowed UL TX power	33dBm
CHOICE channel requirement - Uplink DPCH power control info	Uplink DPCH 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 - Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit - 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 0
- Power offset P <sub>Pilot-DPDCH</sub> - DL rate matching restriction information	Not Present
- DL Tate matering restriction information	INOLI IESEIIL

Information Element	Value/remark
- 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
<ul> <li>DPCH compressed mode info</li> </ul>	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
<ul> <li>Downlink information for each radio link</li> </ul>	
- 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
<ul> <li>Downlink DPCH info for each RL</li> </ul>	
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently
	stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
<ul> <li>Secondary scrambling code</li> </ul>	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
<ul> <li>Closed loop timing adjustment mode</li> </ul>	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)

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	Not Present
RAB information for setup	
- 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	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	No dispard
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	200
- Timer_poll_prohibit - Timer_poll	200 200
•	
- Poll_PDU	Not Present
- Poll_SDU	TRUE
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll - Poll_Windows	99
- Timer_poll_periodic	Not Present
- Timer_poii_periodic - CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	120
- Timer_status_prohibit	200
- Timer_status_profilibit - Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	140t i 1606lit
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1 DCH
- Logical channel identity	Not Present
Logical chainter identity	NOTE TO CONTRACT

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
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	6
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
- Logical channel identity	Not Present
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
<ul> <li>UL Transport channel identity</li> <li>Logical channel identity</li> </ul>	Not Present 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
<ul> <li>DL DCH Transport channel identity</li> </ul>	Not Present
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
- Logical channel identity	7
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
<ul> <li>CHOICE TFCS representation</li> </ul>	Complete reconfiguration
<ul> <li>TFCS complete reconfigure information</li> </ul>	
- CHOICE CTFC Size	
- CTFC information	This IE is repeated for TFC numbers and reference to
- CTFC	TS34.108 clause 6.10.2.4 Reference to TS34.108 clause 6.10.2.4 Parameter Set
- Power offset information	Reference to 1334.100 clause 0.10.2.4 Farameter Set
- 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
	Factors)
- Gain factor βd	15
	(Not Present if the above is set to Computed Gain
- Reference TFC ID	Factors)
- CHOICE mode	FDD
- Power offset P p-m	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	1 DCH added, 1 DCH reconfigured
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
<ul> <li>UL Transport channel identity</li> </ul>	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	Deference to TS24 400 clause C 40 Demander Cat
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
<ul> <li>Number of TBs and TTI List</li> <li>Transmission Time Interval</li> </ul>	(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 Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
<u> </u>	

- Downlink transport channel type

- DL Transport channel identity

- Uplink transport channel type

- CHOICE DL parameters

- UL TrCH identity

- DCH quality target

#### Information Element Value/remark Reference to TS34.108 clause 6.10 Parameter Set - Coding Rate - Rate matching attribute Reference to TS34.108 clause 6.10 Parameter Set - CRC size Reference to TS34.108 clause 6.10 Parameter Set - Uplink transport channel type DCH - UL Transport channel identity 5 - TFS - CHOICE Transport channel type 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 Reference to TS34.108 clause 6.10 Parameter Set - Transmission Time Interval - 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 Reference to TS34.108 clause 6.10 Parameter Set - Coding Rate - Rate matching attribute Reference to TS34.108 clause 6.10 Parameter Set - CRC size Reference to TS34.108 clause 6.10 Parameter Set FDD CHOICE mode - 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 - 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 - CHOICE DL parameters **Explicit** - 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 - 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 - DCH quality target - BLER Quality value -2.0

DCH

DCH

5

Same as UL

10

Information Element	Value/remark
- BLER Quality value	-2.0
Frequency info	Not Present
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	Uplink DPCH info
<ul> <li>Uplink DPCH power control info</li> </ul>	
- 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	
<ul> <li>Downlink DPCH info common for all RL</li> </ul>	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
<ul> <li>Downlink DPCH power control information</li> </ul>	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P <sub>Pilot-DPDCH</sub>	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 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	D (
- 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	D: ODIOH I
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently
On any dama ODIOU in f	stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1 Defense to T004400 sloves 0.40 Demonstra 0.4
- 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,	
	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
manage authorities and		omitted.
- message authentication code		SS calculates the value of MAC-I for this
DDC massage assurance mumber		message and writes to this IE.
- RRC message sequence number		SS provides the value of this IE, from its internal counter.
Integrity protection made info		Not Present
Integrity protection mode info Ciphering mode info		Not Present
Activation time	Λ1 Λ7 ΛΩ	
Activation time	A1, A7, A8	(256+CFN-(CFN MOD 8 + 8))MOD 256 Not Present
New U-RNTI	A4, A5, A6	Not Present
New C-RNTI	A1, A4, A7,	Not Present
New C-RNTI	A1, A4, A7,	Not Flesent
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A4, A5,	Not Present
	A6, A7, A8	
RRC State indicator	A1,	CELL_DCH
	A4,A7,A8	
RRC State indicator	A5, A6	CELL_FACH
UTRAN DRX cycle length coefficient	A1, A4, A5,	Not Present
, ,	A6,A7,A8	
CN information info		Not Present
URA identity		Not Present
Signalling RB information to setup		Not Present
RAB information for setup	A1,A7	
- RAB info		
- RAB identity		0000 0001B
- CN domain identity		CS domain
- NAS Synchronization Indicator		Not Present
- Re-establishment timer		useT314
DD information to notice		
- RB information to setup		40
- RB identity - PDCP info		10   Not Present
- CHOICE RLC info type		RLC info
- CHOICE REC IIIIO type - 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		17.202
- 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	A8	
- RAB info		
- RAB identity		0000 0001B
	•	

Information Element	Condition	Value/remark
- 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
<ul> <li>Segmentation indication</li> <li>CHOICE Downlink RLC mode</li> </ul>		FALSE
		TM RLC   FALSE
<ul> <li>Segmentation indication</li> <li>RB mapping info</li> </ul>		FALSE
Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
<ul> <li>MAC logical channel priority</li> </ul>		6
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> </ul>		1
- Downlink transport channel type		DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>		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 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
<ul> <li>Number of uplink RLC logical channels</li> </ul>		1
<ul> <li>Uplink transport channel type</li> </ul>		DCH
<ul> <li>UL Transport channel identity</li> </ul>		2
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		6
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> <li>Downlink transport channel type</li> </ul>		1 DCH
Downlink transport channel type     DL DCH Transport channel identity		7
- DL DSCH Transport channel identity - DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RB identity		12
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
<ul> <li>Segmentation indication</li> </ul>		FALSE
- CHOICE Downlink RLC mode		TM RLC
- 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 Brocont
Logical channel identity     CHOICE RLC size list		Not Present Configured
- CHOICE RLC SIZE list - MAC logical channel priority		Configured 6
wino logical charillet priority		J ~

Information Element	Condition	Value/remark
- 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		4661616
- RB identity		20
- 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		N 5:
- CHOICE SDU discard mode		No Discard
- MAX_DAT		15
- Transmission window size		128
- Timer_RST		500
- Max_RST		4
- Polling info		
<ul><li>Timer_poll_prohibit</li></ul>		200
- Timer_poll		200
- Poll_PDU		Not Present
- Poll_SDU		1
<ul> <li>Last transmission PDU poll</li> </ul>		TRUE
- Last retransmission PDU poll		TRUE
- Poll_Windows		99
<ul><li>Timer_poll_periodic</li></ul>		Not Present
- CHOICE Downlink RLC mode		AM RLC
- In-sequence delivery		TRUE
- Receiving window size		128
- Downlink RLC status info		
- 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		DCH   1
		Not Present
- Logical channel identity		
- CHOICE RLC size list		Configured
- MAC logical channel priority		8
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> </ul>		1
<ul> <li>Downlink transport channel type</li> </ul>		DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>		6
<ul> <li>DL DSCH Transport channel identity</li> </ul>		Not Present
<ul> <li>Logical channel identity</li> </ul>		Not Present
<ul> <li>RLC logical channel mapping indicator</li> </ul>		Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>		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
:=:=::	1	Set

Information Element	Condition	Value/remark
- MAC logical channel priority		8
<ul> <li>Downlink RLC logical channel info</li> </ul>		
<ul> <li>Number of downlink RLC logical channels</li> </ul>		1
- Downlink transport channel type		FACH
- DL DCH Transport channel identity		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity	1	7
RB information to be affected	A1, A4, A5,	Not Present
Downlink counter aunchronication info	A6,A7,A8	Not Present
Downlink counter synchronisation info	A1, A4, A5,	Not Present
UL Transport channel information for all transport	A6,A7,A8 A1,A4,A5,	
channels	A6,A7,A8	
- PRACH TFCS	Αυ,Ατ,Αυ	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		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
0.750		Parameter Set
- CTFC		Reference to TS34.108 clause 6.10.2.4
Down offert information		Parameter Set
Power offset information     CHOICE Gain Factors		Computed Cain Factors/The last TFC is get to
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to Signalled Gain Factors)
- Gain factor βc		11 (below 64 kbps)
Call lactor pe		9 (higher than 64 kbps) (Not Present if the
		CHOICE Gain Factors is set to Computed
		Gain Factors)
- Gain factor βd		15
'		(Not Present if the CHOICE Gain Factors is set
		to Computed Gain Factors)
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P p-m		Not Present
Deleted UL TrCH information	A1, A4, A5,	Not Present
	A6,A7,A8	1,001,11,1,001, 6
Added or Reconfigured UL TrCH information	A1	1 DCH added, 1 DCH reconfigured
- 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
1.20 0.20		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
Coding Data		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
Data matching attribute		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
- 01/0 2176	1	Neterence to 1994. Too Clause 0. To Farameter

Information Element	Condition	Value/remark
		Set
- Uplink transport channel type		DCH
<ul><li>- UL Transport channel identity</li><li>- TFS</li></ul>		5
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set (This IT 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
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information - Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Hansinission time interval		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
ODO sins		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
Added or Reconfigured UL TrCH information	A4,A5,A6,	2 TrCHs(DCH for DCCH and DCH for DTCH)
<b>3</b>	A7	
- Uplink transport channel type		DCH
- UL Transport channel identity - TFS		5
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC 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
OHOLOG Lawisel Observal list		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
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter
3.13 3.23		Set
- Uplink transport channel type		DCH
- UL Transport channel identity - TFS		1
- CHOICE Transport channel type		Dedicated transport channels
<ul> <li>Dynamic Transport format information</li> </ul>		
- RLC 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
- CHOICE Logical Channel list		Set
- Semi-static Transport Format information		/ MI
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Type of charged and line		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter

Information Element	Condition	Value/remark
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
- Nate matching attribute		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 DTCH)
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>		DCH 5
- TFS - CHOICE Transport channel type		Dedicated transport shannels
- 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
		Set
- CHOICE Logical Channel list     - Semi-static Transport Format information		All
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type		DCH 1
- UL Transport channel identity - TFS		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		(This IE is repeated for TFI number.)
- Transmission Time Interval - Number of Transport blocks		Not Present Reference to TS34.108 clause 6.10 Parameter
·		Set
- 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
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type		DCH
- UL Transport channel identity - TFS		2
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information - RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set (This IE is repeated for TFI number.)
- Transmission Time Interval - Number of Transport blocks		Not Present Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks  - CHOICE Logical Channel list		Set 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
- 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 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     Transmission Time Interval		(This IE is repeated for TFI number.) Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list     - Semi-static Transport Format information		All
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 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	A1, A4, A5, A6,A7,A8	FDD
- CPCH set ID	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Not Present
- Added or Reconfigured TrCH information for DRAC list		Not Present
DL Transport channel information common for all	A1,A7,A8	
transport channel		Not Present
- SCCPCH TFCS - CHOICE mode		Not Present FDD
- CHOICE DL parameters		SameasUL
DL Transport channel information common for all	A4,A5,A6	
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 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 Parameter Set
- Power offset information		Not Present
Deleted DL TrCH information	A1, A4, A5,	Not Present
Added or Reconfigured DL TrCH information	A6,A7,A8 A1	1 DCH added, 1 DCH reconfigured
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Same as UL

Information Element	Condition	Value/remark
- Uplink transport channel type		DCH
- UL TrCH identity		1
- DCH quality target		
- BLER Quality value		-2.0
- Downlink transport channel type		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
<ul> <li>Uplink transport channel type</li> <li>UL TrCH identity</li> </ul>		DCH 5
- DCH quality target		
- BLER Quality value		-2.0
Added or Reconfigured DL TrCH information	A4,A5,A6,	2 TrCHs(DCH for DCCH and DCH for DTCH)
Added of Resolvinguled BE Troff information	A7	2 Hono(Borrior Beofrand Borrior Broth)
- Downlink transport channel type		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		-2.0
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Explicit
- TFS		Dedicated transport abannal
- CHOICE Transport channel type     - Dynamic transport format information		Dedicated transport channel
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- NEO Size		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
T ( ) "		Set D. ( TOO 4 400 L O 40 D
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
Coding Pate		Set Reference to TS34.108 clause 6.10 Parameter
- Coding Rate		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
Trate matering during to		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
3.12.3.23		Set
- DCH quality target		
- BLER Quality value		-2.0
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
<ul> <li>Uplink transport channel type</li> <li>UL TrCH identity</li> </ul>		DCH 5
- DCH quality target		
- BLER Quality value		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 Propert
		Not Present Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks		Neierence to 1994. Too clause 6. To Parameter

Information Element	Condition	Value/remark
		Set
<ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>		Reference to TS34.108 clause 6.10 Parameter
- Hansinission time interval		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
<ul> <li>Downlink transport channel type</li> </ul>		DCH
<ul> <li>DL Transport channel identity</li> </ul>		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 Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
<ul> <li>Dynamic transport format information</li> </ul>		
- 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 Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		
- BLER Quality value		Not Present
- Downlink transport channel type		DCH
- DL Transport channel identity		8
- CHOICE DL parameters		Explicit
- TFS		Explicit
		Dedicated transport shapped
- CHOICE Transport channel type		Dedicated transport channel
- 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.)
- 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
- 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
- DCH quality target		Set
- BLER Quality value		Not Present
	Λ1 Λ <i>1</i> Λ <i>E</i>	NOLLIGOGIL
Frequency info	A1, A4, A5,	1

Information Element	Condition	Value/remark
LIABEON EL AL	A6	B
- 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	A1, A4, A7,	33dBm
·	A8	
Maximum allowed UL TX power	A5, A6	Not Present
CHOICE channel requirement	A1, A4, A7, A8	Uplink DPCH info
- Uplink DPCH power control info	Ao	
- DPCCH power offset		-6dB
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm - TPC step size		Algorithm1 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
- TFCI existence		Set Reference to TS34.108 clause 6.10 Parameter
- TPGI existence		Set
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter
		Set
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter
CHOICE channel requirement	A5,A6	Set Not Present
CHOICE Charmer requirement	A1, A4, A5,	FDD
ONOIGE WING	A6,A7,A8	
- Downlink PDSCH information		Not Present
Downlink information common for all radio links	A1	
- Downlink DPCH info common for all RL		Maintain
<ul><li>- Timing indicator</li><li>- CFN-targetSFN frame offset</li></ul>		Maintain Not Present
- Downlink DPCH power control information		Hot i room
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub> - DL rate matching restriction information		0 Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Spreading ractor		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
TEOL		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 None
- TX Diversity mode - SSDT information		None 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		L to B
- Timing indicator		Initialise Not Present
- CFN-targetSFN frame offset     - Downlink DPCH power control information		NOT FIESEIIL
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0 Not Breeze
- DL rate matching restriction information		Not Present Reference to TS34.108 clause 6.10 Parameter
- Spreading 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
- CHOICE SF		Set   Reference to TS34.108 clause 6.10 Parameter
- CHOICE OF		Neierence to 1334. Too clause 6. To Parameter

Information Element	Condition	Value/remark
		Set
- CHOICE mode		FDD
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value	15.10	Arbitrary set to value 0306688 by step of 512
Downlink information common for all radio links	A5,A6	Not Present
Downlink information for each radio link list	A1	
Downlink information for each radio link     Choice mode		FDD
- Primary CPICH info		FUU
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
- I filliary scrambling 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		Set to value Default DPCH Offset Value ( as
		currently stored in SS) mod 38400
		,
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		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  Downlink information for each radio link list	A 4 A 7 A 0	Not Present
- Downlink information for each radio link	A4,A7,A8	
- Choice mode		FDD
- Primary CPICH info		100
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
Trimary coramising code		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value mod
		38400
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		Defenses to TC24 400 eleves C 40 Degenerates
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
- Code number		Set
- Code number - Scrambling code change		0 No change
- TPC combination index		No change
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH		Not Present
Downlink information for each radio link list	A5	
- Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH information for FACH		Not Present
Downlink information for each radio link list	A6	
- Downlink information for each radio link		

Information Element	Condition	Value/remark
- 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
- 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 message "RADIO	This IE need for "Speech to CELL_DCH from CELL_DCH in CS"
BEARER SETUP message: AM or UM	
(Speech in CS)".	
A3 is defined in message "RADIO	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
BEARER SETUP message: AM or UM	
(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 succeeded	Not checked

# Contents of RADIO BEARER RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
Message Type	A1,A2,A3,	
BB0	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
- message authentication code		omitted. SS calculates the value of MAC-I for this
- message authentication code		message and writes to this IE.
- RRC message sequence number		SS provides the value of this IE, from its
- NNO message sequence number		internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time	A1,A2,A3	(256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time	A4, A5,A6	Not Present
New U-RNTI	, ,	Not Present
New C-RNTI	A1, A2, A3,	Not Present
	A4,	
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3,	Not Present
DDC Ctata indicator	A4, A5, A6	OFIL DOLL
RRC State indicator	A1, A2, A3, A4	CELL_DCH
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
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
DD information to according		ASN.1".
- RB information to reconfigure		(UM DCCH for RRC)
- RB identity - PDCP info		Not Present
- PDCP IIII0 - PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for RRC)
- RB identity		2
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)
- RB identity		3
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue - RB information to reconfigure		Not Present (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		(TM DTCH)
- RB identity		10
- PDCP info		Not Present
		•

Information Element	Condition	Value/remark
- PDCP SN info	Condition	Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
RB information to reconfigure list	A2	TS25.331 specifies that "Although this IE is not
		always required, need is MP to align with
		ASN.1".
- RB information to reconfigure		(UM DCCH for RRC)
- RB identity		1
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for RRC)
- RB identity		2 Not Decoupt
- PDCP info		Not Present
- PDCP SN info - RLC info		Not Present
		Not Present
<ul><li>RB mapping info</li><li>RB stop/continue</li></ul>		Not Present Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)
- RB identity		3
- RB identity - PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for 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		(TM DTCH)
- RB identity		10
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(TM DTCH)
- RB identity		11
- 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)
		(This IE is needed for 12.2 kbps and 10.2
- RB 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,	TS25.331 specifies that "Although this IE is not
1.5 Information to roootinguro not	A5,A4,A5,	always required, need is MP to align with
	/.5	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
11 0 -	1	

Information Element	Condition	Value/remark
- 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)
		4
- RB identity - PDCP info		•
		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
<ul> <li>RB information to reconfigure</li> </ul>		(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	A4 A0	Not Present
RB information to be affected	A1, A2,	Not Present
	A3,A4,A5,	
	A6	
UL Transport channel information for all transport	A1, A2,	Not Present
channels	A5,A6	
UL Transport channel information for all transport	A3, A4	
channels	,	
- PRACH TFCS		Not Present
- CHOICE mode		FDD
- TFC subset		Not Present
- UL DCH TFCS		Not Flesent
		N
- CHOICE TFCI signalling		Normal
- TFCI Field 1 information		
- CHOICE TFCS representation		Complete reconfiguration
<ul> <li>TFCS complete reconfigure information</li> </ul>		
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
		Parameter Set
CTEC		Reference to TS34.108 clause 6.10.2.4
- CTFC		
Devices offered in terms of the		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
	1	to ComputedGain Factors)
		to computed can't actors,
- Gain factor βd		15
- Gain factor βd		15
- Gain factor βd		15 (Not Present if the CHOICE Gain Factors is set
		15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)
- Reference TFC ID		15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0
·		15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)

Information Element	Condition	Value/remark
Deleted UL TrCH information	A1, A2, A3,	Not Present
	A4, A5,A6	
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)
<ul> <li>Uplink transport channel type</li> </ul>		DCH
- UL Transport channel identity		5
- TFS		De disease d success out about als
- CHOICE Transport channel type     - Dynamic Transport format information		Dedicated transport channels
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 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
Normalism of TDs and TTILList		Set (This IS is not set of fee TEL growth as )
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
Transport stocke		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
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)
- Uplink transport channel type	1	DCH
<ul> <li>UL Transport channel identity</li> </ul>		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
<ul><li>Dynamic Transport format information</li><li>RLC Size</li></ul>		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set (This IE is repeated for TFI number.)
<ul><li>Transmission Time Interval</li><li>Number of Transport blocks</li></ul>		Not Present Reference to TS34.108 clause 6.10 Parameter
01101051		Set
- CHOICE Logical Channel list		All
<ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>		Reference to TS34.108 clause 6.10 Parameter
Hansinission time interval		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
CHOICE mode	A1,A2,A3, A4,A5,A6	FDD
- CPCH set ID		Not Present
- Added or Reconfigured TrCH information for DRAC list		Not Present
DL Transport channel information common for all transport channel	A1, A2, A5, A6	Not Present
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		Normal
- CHOICE TFCI Signalling - TFCI Field 1 Information		Normal
<ul> <li>CHOICE TFCS representation</li> <li>TFCS complete reconfigure</li> </ul>		Complete reconfiguration
- CHOICE CTFC Size		Number of bits used must be enough to cover
0110102 011 0 0120		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
- CTFC		reference to TS34.108 clause 6.10.2.4 Reference to TS34.108 clause 6.10.2.4
- CIFC		Parameter Set
- Power offset information		Not Present
Deleted DL TrCH information	A1, A2, A3,	Not Present
Added or Reconfigured DL TrCH information	A4, A5,A6 A1, A2, A5,	Not Present
Trades of Recornings of B2 Troff information	A6	THE THE SERVICE STATE OF THE S
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     - Uplink transport channel type		Same as UL DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		Not Present
- Downlink transport channel type		DCH
DL Transport channel identity     CHOICE DL parameters		6 Evaligit
- TFS		Explicit
- 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 TTU is		Set (This IF is reported for TEL number)
Number of TBs and TTI List     Dynamic transport format information		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
Semi-static Transport Format information     Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Halishiission tille interval		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

Information Element	Condition	Value/remark
- CRC size	Condition	Reference to TS34.108 clause 6.10 Parameter
		Set
- DCH quality target		2.0
- BLER Quality value  Added or Reconfigured DL TrCH information	A3	-2.0
- Downlink transport channel type	/ 10	DCH
- DL Transport channel identity		6
- CHOICE DL parameters - TFS		Explicit
- CHOICE Transport channel type		Dedicated transport channel
<ul> <li>Dynamic transport format information</li> </ul>		·
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		(This is is repeated in the manner,
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		OG:
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
DCH quality torque		Set
- DCH quality target - BLER Quality value		-2.0
Frequency info	A1,A2,A3,	
LIADEON on Entrolement	A4,A5,A6	Defended to allow 5.4 Test for many
- 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	A1,A2,A3,	33dBm
OUOLOG ab annual	A4,A5,A6	Haliah DDOH info
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info
-Uplink DPCH power control info		
- DPCCH power offset - PC Preamble		-6dB   1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
<ul><li>Scrambling code type</li><li>Scrambling code number</li></ul>		Long 0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
- TFCI existence		Set Reference to TS34.108 clause 6.10 Parameter
or oxidence		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 dilotaring Limit		Set
CHOICE channel requirement	A5, A6	Not Present
CHOICE Mode	A1,A2,A3, A4,A5,A6	FDD
- Downlink PDSCH information	74,70,70	Not Present
Downlink information common for all radio links	A5, A6	Not Present
Downlink information common for all radio links	A1, A2, A3	
Downlink DPCH info common for all RL     Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		

Information Element	Condition	Value/remark
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
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
- 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		L-141-11
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		O (single)
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0 Net Bresent
- DL rate matching restriction information		Not Present Reference to TS34.108 clause 6.10 Parameter
- Spreading 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 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
Doladit Dr Orr Oriset Value		step of 512
Downlink information per radio link list	A1, A2, A3	0.000
-Downlink information for each radio link	7, 7, 7	
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
I many community country		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 ( as
		currently stored in SS) mod 38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		
- channelisation code		
- DL channelisation code		
- Secondary scrambling code		2
- Spreading factor		Reference to TS34.108 clause 6.10 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 per radio link list	A4	
-Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		

Information Element	Condition	Value/remark
- Primary scrambling code	30	Ref. to the Default setting in TS34.108 clause
1 minuty columning code		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not i lesent
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value mod
- DPOH ITAINE OIISEL		38400
Cacandani CDICU info		Not Present
- Secondary CPICH info		Not Present
<ul> <li>Secondary scrambling code</li> <li>channelisation code</li> </ul>		
- DL channelisation code		
- Secondary scrambling code		2
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		0
<ul> <li>Scrambling code change</li> </ul>		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>		Not Present
- SCCPCH information for FACH		Not Present
- Downlink information for each radio 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
Sociating Sol Oli IIIIO		Tiot i Tooliit

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
Integrity check info	message. 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,	
RRC transaction identifier Integrity check info	A7, A8	Arbitrarily selects an integer between 0 and 3 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
- message authentication code		omitted. 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 Ciphering mode info		Not Present Not Present
Activation time	A1, A2, A3, A7, A8	(256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time New U-RNTI	A4, A5, A6	Not Present Not Present
New C-RNTI	A1,A2,A3, A4	Not Present
New C-RNTI	A5, A6, A7, A8	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8	Not Present
RRC State indicator	A1,A2, A3, A4	CELL_DCH
RRC State indicator	A5, A6, A7, A8	CELL_FACH
UTRAN DRX cycle length coefficient	A1,A2,A3, A4,A5,A6, A7, A8	Not Present
CN information info Signalling Connection release indication	, -	Not Present Not Present
URA identity RAB information to reconfigure list		Not Present Not Present
RB information to release	A1,A2, A7, A8	THOUT TOOOTIE
- RB identity		10
RB information to release - RB identity	A2, A8	11
RB information to release - RB identity	A2, A8	12
RB information to release	A3, A4, A5, A6	
- RB identity RB information to be affected	A1,A2,	20 Not Present
	A3,A4,A5, A6, A7, A8	
Downlink counter synchronisation info	A1,A2,A3, A4,A5,A6, A7, A8	Not Present
UL Transport channel information for all transport channels	A1, A2, A3, A4	TFCS reconfigured to fit the new transport channel configuration.
UL Transport channel information for all transport channels	A5, A6	Not Present
Deleted UL TrCH Information	A1,A2, A3, A5,A7, A8	
<ul> <li>Uplink transport channel type</li> <li>Transport channel identity</li> </ul>		DCH 1
Deleted UL TrCH Information - Uplink transport channel type	A2, A8	DCH
- Transport channel identity		2

Information Element		Value/remark
Deleted UL TrCH Information	A2, A8	value/Terrial K
- Uplink transport channel type	A2, A0	DCH
- Transport channel identity		3
Deleted UL TrCH Information	A4,A6	Not Present
Added or Reconfigured UL TrCH information	A5, A6, A7,	Not Present
C	A8	
Added or Reconfigured UL TrCH information	A1, A2, A3, A4	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		7.41
- Transmission time interval		According to TS34.108 clause 6.10.2.4.1.3
- Transmission time interval		(standalone 13.6 kbps signalling radio bearer)
- Type of channel coding		According to TS34.108 clause 6.10.2.4.1.3
- Type of charmer coding		(standalone 13.6 kbps signalling radio bearer)
- Coding Rate		According to TS34.108 clause 6.10.2.4.1.3
Coding Nate		(standalone 13.6 kbps signalling radio bearer)
- Rate matching attribute		According to TS34.108 clause 6.10.2.4.1.3
Trate matering attribute		(standalone 13.6 kbps signalling radio bearer)
- CRC size		According to TS34.108 clause 6.10.2.4.1.3
0110 0120		(standalone 13.6 kbps signalling radio bearer)
DL Transport channel information for all transport	A1, A2, A3,	TFCS reconfigured to fit the new transport
channels	A4, A7, A8	channel configuration.
DL Transport channel information for all transport	A5, A6	Not Present
channels		
Deleted DL TrCH Information	A1, A2, A3, A5,A7, A8	
- Downlink transport channel type	', ', '	DCH
- Transport channel identity		6
Deleted DL TrCH Information	A2, A8	
<ul> <li>Downlink transport channel type</li> </ul>		DCH
- Transport channel identity		7
Deleted DL TrCH Information	A2, A8	
<ul> <li>Downlink transport channel type</li> </ul>		DCH
- Transport channel identity		8
Deleted DL TrCH Information	A4,A6	Not Present
Added or Reconfigured DL TrCH information	A5, A6, A7, A8	Not Present
Added or Reconfigured DL TrCH information	A1, A2, A3, A4	1 TrCHs(DCH for DCCH)
- Downlink transport channel type		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		Not Present
Frequency info	A1,A2,A3, A4,A5,A6, A7, A8	
- 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		33dBm
CHOICE channel requirement	A5, A6, A7,	Not Present
I	A8	J

Information Element		Value/remark
CHOICE channel requirement	A1,A2,A3,	Uplink DPCH info
	A1,A2,A3,	Spillik Di Oli lillio
- Uplink DPCH power control info	74	
- 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 rype - Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
- spreading factor		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
- II CI existence		Set
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter
- Number of FBI bit		Set
Dunaturing Limit		Reference to TS34.108 clause 6.10 Parameter
- Puncturing Limit		
CHOICE Made	A4 A0 A0	Set
CHOICE Mode	A1,A2,A3,	FDD
	A4,A5,A6,	
D. II I DDCCIII (	A7, A8	
- Downlink PDSCH information		Not Present
Downlink information common for all radio links	A5, A6,	Not Present
	A7, A8	
Downlink information common for all radio links	A1,A2, A3	
<ul> <li>Downlink DPCH info common for all RL</li> </ul>		
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
<ul> <li>Downlink DPCH power control information</li> </ul>		
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
5.1.5.1.5 _ 5.		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	1.5.1 100011
- Downlink DPCH info common for all RL	' ' '	
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		INOUT TESCHE
- Downlink DPCH power control information - DPC mode		0 (single)
		0 (single)
- CHOICE mode		FDD
- Power offset Ppilot-DPDCH		0 Not Drooms
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set Tool 400 L O 40 D
- 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		Arbitrary set to value 0306688 by step of 512
		,,

Information Element		Value/remark
Downlink information for each radio link list	A1,A2,A3	
-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		
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value ( as currently stored in SS) mod 38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		THOU TOO THE
- channelisation code		
- DL channelisation code		
- Secondary scrambling code		3
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
		Not Present
Closed loop timing adjustment mode     SCCPCH information for FACH		
	A4	Not Present
Downlink information for each radio link list	A4	
-Downlink information for each radio link		EDD
- Choice mode		FDD
- Primary CPICH info		Def to the Defeult cetting in TC24 100 clause
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
DDCCII with CHO DCII into		6.1 (FDD) Not Present
- PDSCH with SHO DCH info		
- PDSCH code mapping - Downlink DPCH info for each RL		Not Present
		Drimary CDICH may be used
Primary CPICH usage for channel estimation     DPCH frame offset		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value mod 38400
Cocondam, CDICH info		Not Present
- Secondary CPICH info		Not Present
Secondary scrambling code     channelisation code		
- DL channelisation code		2
- Secondary scrambling code		Beforence to TS24 109 eleves 6 10 Decemptor
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Cada numbar		Set
- Code number		0 No change
- Scrambling code change		No change
- TPC combination index		· ·
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH	A	Not Present
- Downlink information for each radio link	A5, A7, A8	FDD
- Choice mode		FDD
- Primary CPICH info		Def to the Default patting in TOO4 400 at
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
PROOFF IN ONO POLICY		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"
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-RNTĪ	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:
	<ul> <li>(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.</li> <li>(b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are</li> </ul>
	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	Colored the compact identity are to the IE (I) to 110E 11 and 20
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in
RRC transaction identifier	received RRC CONNECTION REQUEST" message Arbitrarily selects an integer between 0 and 3
Activation time	Not Present(Now)
New U-RNTI	Not Fleseni(Now)
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	
<ul> <li>UE radio access FDD capability update</li> </ul>	TRUE
requirement	
<ul> <li>UE radio access TDD capability update</li> </ul>	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	UM RLC
- CHOICE Uplink RLC mode - Transmission RLC discard	Not present
- CHOICE Downlink RLC mode	IUM RLC
- RB mapping info	OW REO
- 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
<ul> <li>Logical channel identity</li> </ul>	1
- CHOICE RLC size list	Configured
<ul> <li>MAC logical channel priority</li> </ul>	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
<ul> <li>DL DSCH Transport channel identity</li> <li>Logical channel identity</li> </ul>	Not Present
RLC logical channel mapping indicator	Not Present
Number of 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)
<ul> <li>MAC logical channel priority</li> </ul>	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DCCH for BBC)
Signalling RB information to setup - RB identity	(AM DCCH for RRC) Not Present
- RB Identity - CHOICE RLC info type	INOUT TOOCHU
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	7
- SDU discard mode	No discard
- MAX DAT	15
- Transmission window size	128
Transmission window size	
- Timer_RST	500

Information Element	Value/remark
- Polling info	Talasi oliai k
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99 Not Present
- Timer_poll_periodic - CHOICE Downlink RLC mode	Not Present 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     - Logical channel identity	5
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	2
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity - CHOICE RLC size list	2 Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
TEO SIZO ITIGOX	13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup - RB identity	(AM DCCH for NAS_DT High priority) Not Present
- RB identity - CHOICE RLC info type	Not Fresent
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	7.111.1123
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll - Poll_PDU	200 Not present
- Poli_PDU - Poli_SDU	Not present
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
•	,

Information Element	Value/remark
- 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> <li>UL Transport channel identity</li> </ul>	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	4
- Number of REC logical channels - 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
<ul> <li>Uplink transport channel type</li> </ul>	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DOCK! for NAS DT Low priority)
Signalling RB information to setup - RB identity	(AM DCCH for NAS_DT Low priority) Not present
- CHOICE RLC info type	Not present
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST - Polling info	<b>'</b>
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
<ul> <li>Last transmission PDU poll</li> </ul>	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode - In-sequence delivery	AM RLC 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	

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
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
<ul> <li>Uplink transport channel type</li> </ul>	RACH
<ul> <li>UL Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	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)
<ul> <li>MAC logical channel priority</li> </ul>	4
- Downlink RLC logical channel info	
<ul> <li>Number of RLC logical channels</li> </ul>	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	Not Droppet
- PRACH TFCS	Not Present FDD
- CHOICE Mode - TFC subset	Not Present
- UL DCH TFCS	Not Fresent
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Noma
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to TS34.108
	clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio
	bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled
	Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	15
	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information	2011
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	Apparating to TC24 400 planes 0.40 0.4.4.0 /planelater 40.0
- RLC size	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
Number of TPs and TTI lists	kbps signalling radio bearer) (This IE is repeated for TFI number)
- Number of TBs and TTI lists - Transmission Time Interval	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
- Hanomioolon fille interval	kbps signalling radio bearer)
	propo signalling radio bearer)

- TX Diversity mode

- SSDT information

#### Information Element Value/remark - 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 - 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

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	
<ul> <li>Primary scrambling code</li> </ul>	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
<ul> <li>Downlink DPCH info for each RL</li> </ul>	
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
<ul> <li>DL channelisation code</li> </ul>	
<ul> <li>Secondary scrambling code</li> </ul>	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Code number	0
<ul> <li>Scrambling code change</li> </ul>	Not Present
<ul> <li>TPC combination index</li> </ul>	0
- SSDT Cell Identity	Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>	Not Present
- SCCPCH information for FACH	Not Present

## Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)

Information Element	Value/remark	
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		
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions	
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present	
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1	
<ul> <li>Uplink transport channel type</li> </ul>	DCH	
<ul> <li>UL Transport channel identity</li> </ul>	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> </ul>	1	
<ul> <li>Downlink transport channel type</li> </ul>	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 uplink RLC logical channels	1	
- Uplink transport channel type	RACH	
<ul> <li>UL Transport channel identity</li> </ul>	Not Present	

Information Element	Value/remark	
<ul> <li>Logical channel identity</li> <li>CHOICE RLC size list</li> </ul>	1 Fundicit 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)	
- MAC logical channel priority - Downlink RLC logical channel info		
Number of downlink RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- 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		
<ul> <li>SDU discard mode</li> </ul>	No Discard	
- MAX_DAT	15	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	1	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99 Not Present	
<ul><li>- Timer_poll_periodic</li><li>- CHOICE Downlink RLC mode</li></ul>	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		
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions	
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present	
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1	
<ul> <li>Uplink transport channel type</li> </ul>	DCH	
- UL Transport channel identity	5	
- Logical channel identity	2	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1 DCH	
- DCH Transport channel identity		
- DL DSCH Transport channel identity	10 Not Present	
- Logical channel identity	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	
- MAC logical channel priority	13.6 kbps signalling radio bearer) 2	
- Downlink RLC logical channel info	<del>*</del>	
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	

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	7.1111123		
- SDU discard mode	No Discard		
- MAX_DAT	15		
- Transmission window size	128		
- Timer_RST	500		
- Max_RST	1		
- Polling info			
- Timer_poll_prohibit	200		
- Timer_poll	200		
- Poll_PDU	Not Present		
- Poll_SDU	1		
- Last transmission PDU poll	TRUE		
- Last retransmission PDU poll	TRUE		
- Poll_Windows	99		
- Timer_poll_periodic	Not Present		
- CHOICE Downlink RLC mode	AM RLC		
- In-sequence delivery	TRUE		
- Receiving window size	128		
- Downlink RLC status info			
- Timer_status_prohibit	200		
- Timer_EPC	Not Present		
- Missing PDU indicator	TRUE		
- Timer_STATUS_periodic	Not Present		
- RB mapping info			
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions		
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present		
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1		
<ul> <li>Uplink transport channel type</li> </ul>	DCH		
<ul> <li>UL Transport channel identity</li> </ul>	5		
<ul> <li>Logical channel identity</li> </ul>	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	Not Dropont		
- RLC logical channel mapping indicator	Not Present		
- Number of uplink RLC logical channels	1		
- Uplink transport channel type	RACH Not Propert		
<ul> <li>UL DCH Transport channel identity</li> <li>Logical channel identity</li> </ul>	Not Present		
- Logical channel identity - CHOICE RLC size list	3 Explicit list		
- CHOICE RLC Size list - RLC size index	Explicit list		
- UFO SIZE HINEX	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		
- MAC logical channel priority	3		
- NAC logical channel info - 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	3		
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)		
- RB identity	Not Present		
- CHOICE RLC info type	RLC info		
- CHOICE Uplink RLC mode	AM RLC		
- Transmission RLC discard			
- SDU discard mode	No Discard		
- MAX_DAT	15		
- Transmission window size	128		
- Timer_RST	500		

- Max_RST - Poling info - Poling info - Timer poll prohibit - Poll_SDU - Poll_SDU - Poll_SDU - Last transmission PDU poll - Poll_Windows - Timer poll periodic - CHOICE Bownlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_Status_prohibit - Timer_EPC - Missing PDU indicator - Timer_Status_prohibit - Timer_Status_prohibi	Information Element	Value/remark
Polling info Timer poll prohibit Timer poll prohibit Poll PDU Poll PDU Poll SDU Last transmission PDU poll Last transmission PDU poll TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE		
- Timer_poll prohibit - Timer_poll - Poll_SDU - Poll_SDU - Last transmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC status info - Timer status prohibit - Downlink RLC status info - Timer status prohibit - CHOICE RLC size list - RLC signal channel priority - Downlink RLC signal channel shortly - Logical channel identity - Logi		
- Timer_poll - Poll_PDU - 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_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - RLC logical channel mapping indicator - Number of downlink RLC logical channels - Downlink transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Downlink transport channel identity - Logical channel mapping indicator - Number of uplink RLC logical channels - Downlink transport channel identity - Logical ch		200
- Poll SDU - Last tretansmission PDU poll - Last retransmission PDU poll - Poll Windows - Timer poll periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status into - Timer_EPC - Missing PDU indicator - Timer_ETXTATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel syee - UL Transport channel info - Number of downlink RLC logical channels - Downlink transport channel info - Number of downlink RLC logical channels - Downlink transport channel info - Number of uplink RLC logical channels - Downlink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Downlink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Uplink transport channel info - Number of uplink RLC logical channels - Number of uplink RLC logical c		200
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- Logical channel identity - CHOICE RLC size list - RLC size index  - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC - Power offset information - CHOICE Gain Factors  - MAC logical channel priority - According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  4  - Explicit list - According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - Addition  - TFCS complete reconfigure - CTFC - Power offset information - CHOICE Gain Factors  - Computed Gain Factors (The last TFC is set to Signalled)		
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- RLC size index  - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - Logical channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure - CHOICE CTFC Size - CTFC - Power offset information - CHOICE Gain Factors  According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  Computed Gain Factors (The last TFC is set to Signalled		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 information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC - Power offset information - CHOICE Gain Factors  4  Not Present Not Present - Not Present - Not Present - Not Present - D Not Present - FDD Not Present - CTFC - Power offset information - CHOICE TFC Size - CTFC - Power offset information - CHOICE Gain Factors - Computed Gain Factors (The last TFC is set to Signalled		
- Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC - Power offset information - CHOICE Gain Factors  - Computed Gain Factors (The last TFC is set to Signalled)		13.6 kbps signalling radio bearer)
- Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC - Power offset information - CHOICE Gain Factors  1 FACH Not Present 4  Not Present - Not Present - PD Not Present - PD Not Present - Addition - TFCS complete recording to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - Computed Gain Factors (The last TFC is set to Signalled		4
- Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - COmputed Gain Factors - Computed Gain Factors - Not Present - Not Present - Not Present - Addition - FDD - Not Present - CTFC - Double TFCS - Power offset information - CHOICE TFC Size - CTFC - According to TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - Computed Gain Factors (The last TFC is set to Signalled		
- DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity  UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFC Size - CTFC information  - CTFC - CTFC - CTFC - Power offset information - CHOICE Gain Factors  Not Present - Vot		
- DL DSCH Transport channel identity - Logical channel identity UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - Power offset information - CHOICE Gain Factors  Not Present  4  Not Present  - Addition  Normal  Addition  - TFCI Field 1 information - CHOICE TFC Size - CTFC - This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - Computed Gain Factors (The last TFC is set to Signalled		
- Logical channel identity UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - CTFC - Power offset information - CHOICE Gain Factors  4  Not Present FDD Not Present		
UL Transport channel information for all transport channels  - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC  - CTFC - Power offset information - CHOICE Gain Factors  Not Present  Not Present  FDD Not Present  - DD Not Present  -		1
channels  - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC  - Power offset information - CHOICE Gain Factors  Not Present  Not Present  Addition  - Structure Compute Compute Compute Computed Com		
- CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - CTFC - CTFC - Power offset information - CHOICE Gain Factors  - COMPUTE Mode  Not Present  Not Present  Addition  Addition  - Addition  - CTFC  This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - COMPUTE Gain Factors  - COMPUTE Gain Factors  - COMPUTE Gain Factors (The last TFC is set to Signalled)		
- TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
- UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - CTFC - Power offset information - CHOICE Gain Factors  Normal  Addition  Addition  Addition  - Spit CTFC - This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - Computed Gain Factors (The last TFC is set to Signalled		
- CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC -		Not Present
- TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - CTF		Normal
- CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - CT		Tromai
- TFCS complete reconfigure - CHOICE CTFC Size - CTFC information  - CTFC - CTF		Addition
- CHOICE CTFC Size - CTFC information  2bit CTFC This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - CTFC  - CTFC  - Power offset information - CHOICE Gain Factors  2bit CTFC This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - COmputed Gain Factors (The last TFC is set to Signalled	- TFCS complete reconfigure	
TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - CTFC - CTFC - Power offset information - CHOICE Gain Factors  - CTFC -		
signalling radio bearer)  - CTFC According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - Power offset information - CHOICE Gain Factors  signalling radio bearer)  13.6 kbps signalling radio bearer)  Computed Gain Factors (The last TFC is set to Signalled	- CTFC information	
- CTFC  - CTFC  - CTFC  According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)  - Power offset information - CHOICE Gain Factors  Computed Gain Factors (The last TFC is set to Signalled		
- Power offset information - CHOICE Gain Factors  13.6 kbps signalling radio bearer)  Computed Gain Factors (The last TFC is set to Signalled	- CTEC	
- Power offset information - CHOICE Gain Factors  Computed Gain Factors (The last TFC is set to Signalled	- 011 0	
- CHOICE Gain Factors Computed Gain Factors (The last TFC is set to Signalled	- Power offset information	
		Gain Factors)

Information Element	Value/remark
- Gain factor ßc	11 (below 64 kbps)
Cam ractor to	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 TrCH information list	TS 25.331 specifies that "Although this IE is not required
<b>3</b>	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured UL TrCH information	, , , , , , , , , , , , , , , , , ,
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Delicated transport channels
- Dynamic Transport format information	'
- RLC Size	Value 16 results in an RLC size of 144 bits;
	OctetModeType1 ((8*sizeType1)+16).
<ul> <li>Number of TBs and TTI List</li> </ul>	List with single entry
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size	16
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
<ul> <li>Added or Reconfigured DL TrCH information</li> </ul>	
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL Transport channel identity</li> </ul>	10
- CHOICE DL parameters	Same as UL
<ul> <li>Uplink Transport channel type</li> </ul>	DCH
<ul> <li>UL TrCH identity</li> </ul>	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
START list	CONNECTION SETUP message.  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		
<ul> <li>Message authentication code</li> </ul>	Set to an arbitrarily selected 32-bits integer	
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15	
Security capability		
<ul> <li>Ciphering algorithm capability</li> </ul>		
- 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.	
	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	
<ul> <li>Radio bearer downlink ciphering activation time info</li> </ul>		
- 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.	
<ul> <li>Integrity protection mode command</li> </ul>	Start	
<ul> <li>Downlink integrity protection activation info</li> </ul>	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
Activation time	A4, A5, A6	Not Present
New U-RNTI		Not Present
New C-RNTI	A1, A2, A3,	Not Present
	A4	
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3,	Not Present
	A4, A5, A6	
RRC State indicator	A1, A2, A3,	CELL_DCH

Information Element	Condition	Value/remark
	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		Normal
- TFCI Field 1 information		O-malata manafisusatian
- CHOICE TFCS representation		Complete reconfiguration
TFCS complete reconfigure information     CHOICE CTFC Size		Number of bits used must be enough to cover
- CHOICE CIFC Size		all combinations of CTFC from TS34.108
		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
OTI O IIIIOITIALIOII		reference to TS34.108 clause 6.10.2.4
		Parameter Set
- CTFC		Reference to TS34.108 clause 6.10.2.4
<b>5 0</b>		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
		to ComputedGain Factors)
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P p-m	11111	Not Present
Added or Reconfigured UL TrCH information	A1, A2, A5,	Not Present
	A6	

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		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		D ( T004 400
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
Type of charmer county		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
, and the second		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
CDC size		Set
- CRC size		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 channels
<ul> <li>Dynamic Transport format information</li> </ul>		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set
- 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
- Type of channel coding		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
gramig rand		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
000 :		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
Added or Reconfigured UL TrCH information	A3	Set (DCH for DTCH)
- Uplink transport channel type	73	DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		Deference to TO24 400 eleves 0.40 Dem
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
<ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>		Reference to TS34.108 clause 6.10 Parameter
- Hansinission line interval		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		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
OLIOIOE /	111010	Set
CHOICE mode	A1,A2,A3,	FDD
CDCH and ID	A4,A5,A6	Not Droppet
- CPCH set ID		Not Present
- Added or Reconfigured TrCH		Not Present
information for DRAC list	A 4 A 0	Not Decorat
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		Not Descript
- SCCPCH TFCS		Not Present
- CHOICE mode		FDD For White
- CHOICE DL parameters		Explicit
- DL DCH TFCS		Name
- CHOICE TFCI Signalling		Normal
- TFCI Field 1 Information		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure		la de la companya de
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from clause
0750 : (		TS34.108 clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
0750		reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4
5 "		Parameter Set
- Power offset information		Not Present
Added or Reconfigured DL TrCH information	A1, A2, A5,	Not Present
	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
<ul> <li>Uplink transport channel type</li> </ul>		DCH
- UL TrCH identity		5
- DCH quality target		N · B
- BLER Quality value		Not Present
Downlink transport channel type     DL Transport channel identity		DCH 6
- CHOICE DL parameters		Explicit
- TFS		ZAPIIOR
- 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		Net December
- Transmission Time Interval		Not Present Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks		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
<b>-</b>		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter
- CRC SIZE		Set
- DCH quality target		Set
- BLER Quality value		-2.0
Added or Reconfigured DL TrCH information	A3	
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Explicit
- TFS		De die ete d'Anno en est els esse el
- CHOICE Transport channel type     - Dynamic transport format information		Dedicated transport channel
- Burnamic transport format information - RLC Size		Reference to TS34.108 clause 6.10 Parameter
- NEC Size		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
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
County Nato		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
<b>3</b>		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- DCH quality target		
- BLER Quality value	A 4 A 2 A 2	-2.0
Frequency info	A1,A2,A3,	
LIADECN upliet (Nu)	A4,A5,A6	Reference to clause 5.4 Test for succession
- UARFCN uplink (Nu) - UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
- OARFON downlink (Nd) Maximum allowed UL TX power	A1,A2,A3,	33dBm
Waximum anowed of 17 power	A1,A2,A3, A4,A5,A6	JOUDIN

Information Element	Condition	Value/remark
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		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- 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
TFOI aviatana		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
N. J. CERLIN		Set Tool 400 I all 5
- 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	A1,A2,A3,	FDD
	A4,A5,A6	
- Downlink PDSCH information		Not Present
Downlink information common for all radio links	A5, A6	Not Present
Downlink information common for all radio links	A1, A2, A3	
- Downlink DPCH info common for all RL	,,	
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		Not i resent
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0 Net Bresset
- 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 common for all radio links	A4	
- Downlink DPCH info common for all RL	1	
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
		INOUT TESETIL
- Downlink DPCH power control information		0 (gingle)
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
<ul> <li>DL rate matching restriction information</li> </ul>		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
		Set
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value	A4 A0 A0	Arbitrary set to value 0306688 by step of 512
Downlink information for each radio link list	A1, A2, A3	I

Information Element	Condition	Value/remark
- Downlink information for each radio links		
- 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 ( as
		currently stored in SS) mod 38400
- Power offset P <sub>Pilot-DPDCH</sub>		0 '
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		4
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
3		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 links		
- CHOICE mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
January Grand		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
- Power offset P <sub>Pilot-DPDCH</sub>		0
- Secondary CPICH info		Not Present
- DL channelisation code		
- 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
- 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
PROOF WE ONE POWER		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"
А3		This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4		This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5		This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6		This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

#### Contents of 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.
<ul> <li>Message authentication code</li> </ul>	SS calculates the value of MAC-I for this message and
	writes to this IE.
<ul> <li>RRC Message sequence number</li> </ul>	SS provides the value of this IE, from its internal counter.
CHOICE mode	FDD
DPCH/PUSCH TFCS in Uplink	
- CHOICE Subset representation	Allowed transport format combination list
<ul> <li>Allowed Transport format combination</li> </ul>	0 (The TFC is constructed from ALL TF0)
Activation time for TFC subset	Not Present
TFC Control duration	Not Present

### Contents of UE CAPABILITY ENQUIRY message: AM or UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	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.
<ul> <li>UE radio access FDD capability update requirement</li> </ul>	TRUE
- UE radio access TDD capability update	FALSE
requirement	
- 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
<ul> <li>Access stratum release indicator</li> </ul>	
- 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.
<ul> <li>Message authentication code</li> </ul>	This IE is checked to see if it is present. The value is
	compared against the XMAC-I value computed by SS.
- 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.
<ul> <li>message authentication code</li> </ul>	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 RRC Message Contents (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	
<ul> <li>CHOICE Used paging identity</li> </ul>	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)

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
DDC magaza agguanas numbar	writes to this IE.
- RRC message sequence number Integrity protection mode info	SS provides the value of this IE, from its internal counter.  Not Present
Ciphering mode info	The presence of this IE is dependent on IXIT statements
Ciprioring 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 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	(256 CEN (CEN MOD 9 + 9)\MOD 256
Activation time  New U-RNTI	(256+CFN-(CFN MOD 8 + 8))MOD 256 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 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	
<ul> <li>Information for each multiplexing option</li> </ul>	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>	DCH 1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present 11
- RB identity - PDCP info	Not Present
- PDCP IIII0 - CHOICE RLC info type	RLC info
- CHOICE Wall mile type - CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE

Information Floriant	Malara fra manda
Information Element - CHOICE Downlink RLC mode	Value/remark
	TM RLC
- Segmentation indication	FALSE
<ul> <li>RB mapping info</li> <li>Information for each multiplexing option</li> </ul>	
- RLC logical channel mapping indicator	Not Present
Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	7
<ul> <li>DL DSCH Transport channel identity</li> </ul>	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 Droppet
- RLC logical channel mapping indicator	Not Present
<ul> <li>Number of uplink RLC logical channels</li> <li>Uplink transport channel type</li> </ul>	1 DCH
- UL Transport channel identity	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	
Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
-Individual UL CCTrCH information	(TI: 15:
- TFCS ID	(This IE is repeated for TFC number.)
<ul> <li>Allowed Transport Format combination</li> </ul>	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
- PRACH TFCS	TS34.108 clause 6 Parameter Set.)
	(This IE is repeated for TFC number.) Normal
<ul> <li>CHOICE TFCI signalling</li> <li>TFCI Field 1 information</li> </ul>	Normal
- TFCI Field 1 information - TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover
- Official II do dize	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	
- CHOICE Transport channel type	Dedicated transport channels

- CHOICE DL parameters

#### 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 - DCH quality target - BLER Quality value -6.3 - Downlink transport channel type DCH - DL Transport channel identity

Same as UL

- Uplink transport channel type - UL TrCH (identity - DCH quality target - BLER Quality value - Downlink transport channel type - UL TrCH (identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH (identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH (identity - DCH quality target - BLER Quality value - Frequency - Power Control (info power control info mation - CHOICE Mode - Power Control Algorithm - TrC step size - CHOICE Mode - Downlink DPCH info common for all RL - Timing indicator - CHOICE mode - Choice mode - Primary CCPCH info - Choice mode - Primary CCPCH info - CHOICE spracese - Timeslot - Cell parameters ID - Cort indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTICH List - TrC I conding - Puncturing limit - Repetition pariod -	Information Element	Value/remark
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- 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		
- 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		
that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set		(i/SF) where i is the lowest numbered code
TS34.108 clause 6 Parameter Set		
- Last channelisation code (i/SF) where i is the highest numbered code		
1 10 - 1	- Last channelisation code	(j/SF) where j is the highest numbered code

Information Element	Value/remark
	that is being assigned in the slot.
- Bitmap	Bitmap of the codes that are being assigned in
	the slot.
<ul> <li>CHOICE more timeslots</li> </ul>	The presence of this IE depends upon whether
	the requirements of TS34.108 clause 6
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

# 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	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
<ul> <li>Ciphering activation time for DPCH</li> </ul>	(256+CFN-(CFN MOD 8 + 8))MOD 256
<ul> <li>Radio bearer downlink ciphering activation time info</li> </ul>	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

Information Element	Value/remark
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	NOT FIESEIIT
- RAB info	
	0000 0404B
- RAB identity	0000 0101B
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	00
- RB identity	20
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
<ul> <li>Last transmission PDU poll</li> </ul>	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	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 Set
- MAC logical channel priority	8
- MAC logical channel phonty - Downlink RLC logical channel info	
Number of downlink RLC logical channels	1
- Number of downlink REC logical channels  - Downlink transport channel type	FACH
- DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity - DL DSCH Transport channel identity	Not Present
- DE DOOT Hansport charmer lucitury	I NOCE TO SOUR

#### Information Element Value/remark - Logical channel identity RB information to be affected list Not Present Downlink counter synchronisation info Not Present UL Transport channel information for all transport channels - PRACH TFCS Not Present - CHOICE mode TDD -Individual UL CCTrCH information - TFCS ID (This IE is repeated for TFC number.) 0 to MaxTFCvalue-1 (MaxTFCValue is refer to - Allowed Transport Format combination TS34.108 clause 6 Parameter Set.) (This IE is repeated for TFC number.) - PRACH TFCS - 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 - 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 - 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 TDD (no data) DL Transport channel information common for all transport channel - SCCPCH TFCS Not Present - CHOICE mode TDD - Downlink DPCH info common for all RL - Timing indicator Maintain - CFN-targetSFN frame offset Not Present - Downlink DPCH power control information - CHOICE mode TDD - TPC step size 1 dB - Default DPCH offset value 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 - CHOICE DL parameters **Explicit** - 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

- DL CCTrCH List

#### Information Element Value/remark Reference to TS34.108 clause 6.10 Parameter Set - Transmission time interval - Type of channel coding Reference to TS34.108 clause 6.10 Parameter Set - Coding Rate Reference to TS34.108 clause 6.10 Parameter Set - Rate matching attribute Reference to TS34.108 clause 6.10 Parameter Set - CRC size Reference to TS34.108 clause 6.10 Parameter Set - DCH quality target - BLER Quality value -6.3 Frequency info -CHOICE mode TDD - UARFCN (Nt) Reference to clause 5.1 Test frequencies Maximum allowed UL TX power CHOICE channel requirement Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - UL Target SIR Reference to TS34.108 Parameter set. - CHOICE UL OL PC info Individually signalled - Uplink Timing Advance Control Not Present - UL CCTrCH List - TFCS Id - Time info - Activation time (256+CFN-(CFN MOD 8 + 8))MOD 256 - Duration - Common timeslot info - 2nd interleaving mode Reference to TS34.108 clause 6.10 Parameter Set - TFCI coding Reference to TS34.108 clause 6.10 Parameter Set - Puncturing Limit Reference to TS34.108 clause 6.10 Parameter Set - Repetition Period Reference to TS34.108 clause 6.10 Parameter Set - Repetition Length Reference to TS34.108 clause 6.10 Parameter Set - First individual timeslot info - Timeslot number The number of an uplink timeslot that has unassigned codes. - TFCI existence **TRUE** - Midamble shift and burst type -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 (i/SF) where i denotes an unassigned code - Channelisation code matching the SF specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends upon the - CHOICE more timeslots 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 - DPC mode 0 (single) - CHOICE mode TDD (no data) - Default DPCH Offset Value Not Present Downlink information for each radio link list - Downlink information for each radio link TDD - Choice mode - Primary CCPCH info - CHOICE SyncCase Sync Case 1 - Timeslot PCCPCH timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode TDD

Information Element	Value/remark
- 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
<ul> <li>Downlink DPCH timeslots and codes</li> </ul>	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	11.02
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	7.6 4611164 117 661 1 76 26.221
- 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
Ap	the slot.
	the siet.
- 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
-300FOLLIHIOHIIGUOH IOLFACH	NOT LIESEUL

Uplink counter synchronisation info

#### 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. The presence of this IE is dependent on IXIT statements Integrity check info 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. This IE is checked to see if it is present. The value is used - RRC Message sequence number by SS to compute the XMAC-I value. Not checked. Uplink integrity protection activation info 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. If ciphering is not activated in RADIO BEARER SETUP Radio bearer uplink ciphering activation time info 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.

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 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.
Uplink counter synchronisation info	Not checked

# Contents of 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-RNTĪ	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	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.
<ul> <li>Message authentication code</li> </ul>	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	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
<ul> <li>UE radio access FDD capability</li> </ul>	FALSE
update requirement	
<ul> <li>UE radio access TDD capability</li> </ul>	TRUE
update requirement	
- System specific capability update requirement list	gsm

lufa matian Element	Make a frame and
Information Element	Value/remark
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	LIMPLO
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	OWINEO
- 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
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	1
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	RACH
- UL 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
MAQ1 : 11 1 : "	signalling radio bearer
- MAC logical channel priority	1
- Downlink RLC logical channel info	1
<ul> <li>Number of RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1 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	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present

Information Element	Value/remark
- Poll_SDU	1
<ul> <li>Last transmission PDU poll</li> </ul>	TRUE
<ul> <li>Last retransmission PDU poll</li> </ul>	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	200
<ul><li>- Timer_status_prohibit</li><li>- Timer_EPC</li></ul>	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	TVOCT TOOGING
- 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 Not Droppet
<ul> <li>RLC logical channel mapping indicator</li> <li>Number of RLC logical channels</li> </ul>	Not Present
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	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	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
<ul> <li>DL DCH Transport channel identity</li> </ul>	Not Present
<ul> <li>DL DSCH Transport channel identity</li> </ul>	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	AMBIC
- CHOICE Uplink RLC mode	AM RLC
<ul> <li>Transmission RLC discard</li> <li>SDU discard mode</li> </ul>	No Discard
- MAX_DAT	15
	10
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
<ul><li>Timer_poll_prohibit</li></ul>	200
- Timer_poll	200
- Poll_PDU	Not present
	· '

Information Element	Value/remark
- Poll_SDU	1
- Last transmission PDU poll	TRUE
<ul> <li>Last retransmission PDU poll</li> </ul>	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	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 Configured
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info - Number of RLC logical channels	4
- Number of REC logical channels - Downlink transport channel type	1 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	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
<ul> <li>DL DCH Transport channel identity</li> </ul>	Not Present
<ul> <li>DL DSCH Transport channel identity</li> </ul>	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	AMBI O
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No discord
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Transmission window size - Timer_RST	500
- Max_RST	1
- Polling info	'
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll PDU	Not present
1 0 50	

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
<ul><li>Downlink RLC status info</li><li>Timer_status_prohibit</li></ul>	200
- Timer_status_profilbit - Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4 Configurad
- CHOICE RLC size list	Configured
- MAC logical channel priority - Downlink RLC logical channel info	4
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
Logical channel identity     CHOICE RLC size list	4 Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps
NEO SIZE IIIOX	signalling radio bearer
- MAC logical channel priority	4
- Downlink RLC logical channel info	
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
-Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
<ul> <li>Allowed Transport Format combination</li> </ul>	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
	TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover
5.15.52 11 55 5125	all combinations of CTFC from clauses 6.
	Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
<ul> <li>Individual UL CCTrCH information</li> </ul>	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured UL TrCH information	POLL
- Uplink transport channel type	DCH
- UL Transport channel identity - TFS	5
1 0	1

#### Information Element

- CHOICE Transport channel type
- Dynamic Transport format information
- RLC size
- Number of TBs and TTI lists
- Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical channel list
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

DL Transport channel information common for all transport channel

- SCCPCH TFCS
- CHOICE mode
- CHOICE DL parameters

Added or Reconfigured TrCH information list

- Added or Reconfigured DL TrCH information
  - Downlink transport channel type
  - DL Transport channel identity
  - CHOICE DL parameters
  - Uplink transport channel type
  - UL Transport channel identity
  - -DCH quality target
  - BLER Quality target

Frequency info

Maximum allowed UL TX power

HOICE channel requirement

- Uplink DPCH power control info
  - CHOICE mode
  - UL Target SIR
  - CHOICE UL OL PC info
  - Uplink Timing Advance Control
  - UL CCTrCH List
    - TFCS Id
    - Time info
      - Activation time
      - Duration
      - Common timeslot info
        - 2nd interleaving mode
        - TFCI coding
        - Puncturing Limit
        - Repetition Period
        - Repetition Length
        - First individual timeslot info
        - Timeslot number
        - TFCI existence
        - Midamble shift and burst type
          - -CHOICE Burst Type
          - -Type 1
          - -Midamble Allocation Mode
          - Midamble configuration burst

type 1 and 3

- First timeslot channelisation codes

Dedicated transport channels

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

Value/remark

(This IE is repeated for TFI number)

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

Not Present

TDD

Same as UL

DCH

10

Same as UL

DCH

5

-6.3

Not Present Not Present

Uplink DPCH info

TDD

Reference to TS34.108 Parameter set.

Individually signalled

Not Present

1

(256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set

The number of an uplink timeslot that has unassigned codes.

TRUE

Default

As defined in 3GPP TS 25.221

Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.

Information Element	Value/remark
- Channelisation code	(i/SF) where i denotes an unassigned code
Chambadali oodo	matching the SF specified in TS34.108 clause
	6 Parameter Set.
- CHOICE more timeslots	The presence of this IE depends upon the
STICIOL IIIO MINOSIOLO	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	3
- 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 (no data)
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	(050 · 05N (05N ··· - d 0 · 0)\··· - d 050
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
- Common timeslot info	Poforonce to TS24 108
- 2nd interleaving mode	Reference to TS34.108 TRUE
- TFCI coding - Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Puncturing limit - Repetition period	1
- Repetition period - Repetition length	Empty
- Downlink DPCH timeslots and codes	Linety
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has
	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-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	
<ul> <li>First channelisation code</li> </ul>	(i/SF) where i is the lowest numbered code
	that is being assigned and SF is specified in
	TS34.108 clause 6 Parameter Set
- 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
	Not Present
-SCCPCH information for FACH	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 SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	Value/Terrial K
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	7 inditioning delected art integer between a and a
- 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	det to air aizmain) colocioù integer zonnoon e ana re
- Ciphering algorithm capability	
- UEA0	If ciphering is not indicated to be active on IXIT
<del></del>	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
<ul> <li>Integrity protection algorithm capability</li> </ul>	000000000000010B (UIA1)
- UIA1	TRUE
- Spare	FALSE
Ciphering mode info	This presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If ciphering is indicated to be active, this
	IE present with the values of the sub IEs as stated below.
	Else, this IE is omitted.
<ul> <li>Ciphering mode command</li> </ul>	Start/restart
- Ciphering algorithm	Use the same ciphering algorithm specified in "ciphering
	algorithm capability" IE in this message.
<ul> <li>Ciphering activation time for DPCH</li> </ul>	Not Present
<ul> <li>Radio bearer downlink ciphering activation time</li> </ul>	
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
Integrity protection made command	stated below. Else, this IE and the sub-IEs are omitted.
Integrity protection mode command      Downlink integrity protection activation info	Start Not Procent
Downlink integrity protection activation info     Integrity protection algorithm	Not Present UIA1
<ul> <li>Integrity protection algorithm</li> <li>Integrity protection initialisation number</li> </ul>	SS selects an arbitrary 32 bits number for FRESH
- Integrity protection initialisation number CN domain identity	Supported domain
UE system specific security capability	Not Checked
OE 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 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, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

# 9.2.1 Default Message Contents for RF (FDD)

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

Contents of Close UE Test Loop message (UE test loop mode 1 without Dummy DCCH transmission)

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

#### Contents of Close UE Test Loop message (UE test loop mode 2 without Dummy DCCH transmission)

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	01h

#### Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

#### Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
- 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 Activation time		Not Present   (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 list	A1	Not Present
- RAB information for setup	A	
- 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 - RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication - RB mapping info		FALSE
- Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- 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		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 into - 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	l	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		AWINEO
- CHOICE SDU discard mode		No Discard
- MAX_DAT		15
- Transmission window size		128
		500
- Timer_RST		4
- Max_RST		4
- Polling info		200
- Timer_poll_prohibit		200
- Timer_poll - Poll_PDU		Not Present
		1
- Poll_SDU		1 -
- Last transmission PDU poll		TRUE
- Last retransmission PDU poll		TRUE
- Poll_Windows		99 Not Present
- 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		200
- Timer_EPC		Not Present
- Missing PDU indicator		TRUE
- Timer_STATUS_periodic		Not Present
- RB mapping info		appu autor
- 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
		Set
- MAC logical channel priority		8
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- Downlink transport channel type		FACH
- DL DCH Transport channel identity		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
RB information to be affected list	A1,A3	Not Present
Downlink counter synchronisation info	<u> </u>	Not Present
UL Transport channel information for all transport	A1,A3	
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

Information Element	Condition	Value/remark
- TFCS complete reconfigure information		20 20 20 20 20
- CHOICE CTFC Size	1	2 bit CTFC
- CTFC information	1	4 TFCs
- 2bit CTFC		0
- Power offset Information	1	
- CHOICE Gain Factors	1	Computed Gain Factors
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P <sub>p-m</sub> - 2bit CTFC		Not Present 2
- 2011 CTPC - Power offset Information		2
- CHOICE Gain Factors		Computed Gain Factors
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P <sub>p-m</sub>		Not Present
- 2bit CTFC		1
- Power offset Information		
- CHOICE Gain Factors		Computed Gain Factors
- Reference TFC ID		0
- CHOICE mode	1	FDD
- Power offset P <sub>p-m</sub> - 2bit CTFC		Not Present 3
		3
Power offset Information     CHOICE Gain Factors	1	Signalled Gain Factors
- CHOICE Gain Factors - CHOICE mode		FDD
- Gain factor ßc		8
- Gain factor ßd		15
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P <sub>p-m</sub>		Not Present
Deleted UL TrCH information list		Not Present
Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information	A1, A3	1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport Format Information		244 hita
- RLC size - Number of TBs and TTI List		244 bits 2
- Transmission Time Interval		Not Present
- Number of Transport blocks		0
- Transmission Time Interval		Not Present
- Number of Transport blocks	1	1
- CHOICE Logical Channel List	1	ALL
- Semi-static Transport Format Information	1	
- Transmission time interval - Type of channel coding	1	20 Convolutional
- Type of channel coding - Coding Rate	1	1/3
- Rate matching attribute	1	256
- CRC size	1	16
CHOICE mode	A1, A3	FDD
- CPCH set ID	1	Not Present
- Added or Reconfigured TrCH information for DRAC	1	Not Present
list	A4 A2	
DL Transport channel information common for all transport channel	A1,A3	
- SCCPCH TFCS	1	Not Present
- CHOICE mode		FDD
- CHOICE DL parameters	<u>1                                    </u>	Same as UL
Deleted DL TrCH information list	A1,A3	Not Present
Added or Reconfigured DL TrCH information list	1	1
- Added or Reconfigured DL TrCH information	1	
- Downlink transport channel type	1	DCH
- DL Transport channel identity		6 Sama as III
- CHOICE DL parameters		Same as UL

Information Element	Condition	Value/remark
- Uplink transport channel type		DCH
- UL TrCH identity		1
- DCH quality target		
- BLER Quality value		-2.0
Frequency info	A1,A3	Not Present
Maximum allowed UL TX power		33dBm
CHOICE channel requirement		Uplink DPCH info
- Uplink DPCH power control 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   64
- spreading factor - TFCI existence		
		TRUE
- Number of FBI bit - Puncturing Limit		Not Present(0)
CHOICE Mode		FDD
- Downlink PDSCH information		Not Present
Downlink information common for all radio links	A1,A3	Not i resent
- Downlink DPCH info common for all RL	Α1,Α3	
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		Not i resent
- CHOICE mode		FDD
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
- DL rate matching restriction information		Not Present
- Spreading factor		128
- Fixed or Flexible Position		Fixed
- TFCI existence		TRUE
- CHOICE SF		128
<ul> <li>Number of bits for Pilot bits</li> </ul>		8
- 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 for per radio link list	A1,A3	
- Downlink information for each radio link		500
- CHOICE mode		FDD
- Primary CPICH info	1	100
- Primary scrambling code		100 Not Present
- PDSCH with SHO DCH info - PDSCH code mapping		Not Present Not Present
- PDSCH code mapping - Downlink DPCH info for each RL		INOLFIESEIIL
- CHOICE mode	1	FDD
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value (as
Di Ori namo onoci		currently stored in SS) mod 38400
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		1
- Spreading factor	1	128
- Code number		0
- Scrambling code change		No change
- TPC combination index	1	0
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH		Not Present

Co	ondition	Explanation
A1		This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is
		selected.
A3		This IE is needed for acknowledged mode.
NOTE:	In the case of	Performance Requirement and RRM test cases, A1 or A3 is selected according to the
combination of UL and DL channels or test requirements.		

# Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
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 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
- CHOICE RLC SIZE IIST - RLC size index	Reference to TS34.108 clause 6 Parameter Set
	14
- MAC logical channel priority	1
- Downlink RLC logical channel info	1
- Number of RLC logical channels	I FACILI
- 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	

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	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	Configure d
- CHOICE RLC size list	Configured
MAC logical channel priority     Downlink RLC logical channel info	2
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- 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

Information Element	Value/remark
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	·
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Neceiving window size  - Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_Status_profilbit - Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Flesent
- RB mapping into  - Information for each multiplexing option	2 PPMuvOntions
- RLC logical channel mapping indicator	2 RBMuxOptions Not Present
	Not Plesent
- Number of RLC logical channels	DCH .
- Uplink transport channel type	DCH
-UL Transport channel identity	5
- Logical channel identity	3 Configured
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	4
- Number of RLC logical channels	DCH .
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Propert
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	I BACH
- Uplink transport channel type	RACH Not Propert
- UL Transport channel identity	Not Present
- Logical channel identity	3 Evaliait Liat
- 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	FACH
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DCCH for NAS DT Low priority)
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	AMPLO
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	

Information Element	Value/remark
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	DCH
<ul> <li>Downlink transport channel type</li> <li>DL DCH Transport channel identity</li> </ul>	
· · · · · · · · · · · · · · · · · · ·	Not Present
<ul> <li>DL DSCH Transport channel identity</li> <li>Logical channel identity</li> </ul>	Not Present 4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- 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	
- CHOICE TFCI signalling	Normal

Information Element	Value/remark
- TFCI Field 1 information	* Graditalia
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	gananan
- 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	
- 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	1
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format Information	
- Transmission time interval	40
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	256
- CRC size	12
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured DL TrCH information list	1
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	SameasUL
- 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
- Uplink DPCH power control info	
	•

Information Element	Value/remark
- DPCCH power offset	-6dB
- PC Preamble	1 frame
	7 frames
- SRB delay	
- 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
<ul> <li>DL rate matching restriction information</li> </ul>	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
- GOOT OTTINIONNALION TO FACIT	INOUT TESTIL

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	
<ul> <li>Message authentication code</li> </ul>	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 - UEA1	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.  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
<ul> <li>Integrity protection algorithm capability</li> <li>UIA1</li> </ul>	0000000000000010B (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.
- Ciphering mode command	Else, this IE is omitted. Start/restart
- Ciphering algorithm	UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.
Ciphering activation time for DPCH     Radio bearer downlink ciphering activation time info	Not Present
- 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.
<ul> <li>Integrity protection mode command</li> </ul>	Start
<ul> <li>Downlink integrity protection activation info</li> </ul>	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

# 9.2.2 Default Message Contents for RF (TDD)

Contents of Activate RB Test Mode message

Information Element	Value/remark	
Protocol discriminator	F (Length 1/2)	
Skip indicator	0 (Length 1/2)	
Message Type	44h	

# Contents of Close UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

#### Contents of Open UE Test Loop message

Information Element	Value/remark		
Protocol discriminator	F (Length 1/2)		
Skip indicator	0 (Length 1/2)		
Message Type	42h		

#### Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
- 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	
<ul> <li>CHOICE Used paging identity</li> </ul>	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

# Contents of RADIO BEARER SETUP message: AM or UM

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.
<ul> <li>message authentication code</li> </ul>		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	Not Present		
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode			
- Transmission RLC discard			
- CHOICE SDU discard mode		No discard	
- MAX_DAT		15	
- Transmission window size		128	
- Timer_RST		500	
- Max_RST		4	
- Polling info			
- Timer_poll_prohibit		200	
- Timer_poll		200	
- Poll_SDU		1	
- Last transmission PDU poll		TRUE	
- Last retransmission PDU poll		TRUE	
- 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 Not Droppet	
	- Logical channel identity - CHOICE RLC size list  Not Present Configured		
		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	
		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  RB information to be affected list	A1,A3	Not Present Not Present	
Downlink counter synchronisation info	A I,AS	Not Present Not Present	
UL Transport channel information for all transport	A1,A3	Not i leacht	
channels	, , ,		
- PRACH TFCS		Not Present	
- CHOICE mode		TDD	
-Individual UL CCTrCH information			
- TFCS ID		(This IE is repeated for TFC number.)	
<ul> <li>Allowed Transport Format combination</li> </ul>		0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
		TS34.108 clause 6 Parameter Set.)	
- PRACH TFCS		(This IE is repeated for TFC number.)	
- CHOICE TFCI signalling		Normal	

Information Element	Condition	Value/remark
- TFCI Field 1 information	Condition	value/remark
- TFCS complete reconfigure information		Number of word hite mount has an available according
- 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
0.750 : (		
- CTFC information		Not Present
- CHOICE mode		TDD
<ul> <li>Individual UL CCTrCH information</li> </ul>		Not Present
Deleted UL TrCH information list		Not Present
Added or Reconfigured UL TrCH information list	A1	1
- Added or Reconfigured UL TrCH information		
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport Format Information		·
- RLC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- Transmission Time Interval		Not Present
- Number of Transport blocks		1
- 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
Type of officering		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
Journal of the control of the contro		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
0110 0120		Set
CHOICE mode	A1, A3	TDD (no data)
DL Transport channel information common for all	A1,A3	122 (no data)
transport channel	711,710	
- SCCPCH TFCS		Not Present
- CHOICE mode		TDD
- CHOICE DL parameters		Independent (Refer to TS34.108 clause 6)
Deleted DL TrCH information list	A1,A3	Not Present
Added or Reconfigured DL TrCH information list	A1,A3	1
- Added or Reconfigured DL TrCH information  - Added or Reconfigured DL TrCH information		'
- Added of Reconligured DL Tron information - Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Same as UL
		DCH
- Uplink transport channel type		1 1
- UL TrCH identity		1
- DCH quality target		Poterance to TS24 109 clause 6
- BLER Quality value	A4 A2	Reference to TS34.108 clause 6
Frequency info	A1,A3	Not Present
Maximum allowed UL TX power		30dBm
CHOICE channel requirement		Uplink DPCH info
- Uplink DPCH power control info		TDD
- CHOICE mode		TDD
- UL Target SIR		Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info		Individually signalled
- Individual timeslot interference info		
- Individual timeslot interference		Value are used for an all land
- DPCH Constant Value		Values are used for open loop power control,
I halfield Therefore Address and Co. 1		section 8 in TS 25.331
- Uplink Timing Advance Control		Not Present
- UL CCTrCH List		
- TFCS ld		1
- Time info		

Information Flowant	Condition	Valuatromark	
Information Element	Condition	Value/remark	
- Activation time	1	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration		Infinite	
- Common timeslot info			
- 2nd interleaving mode		Reference to TS34.108 clause 6.10 Parameter Set	
- TFCI coding		Reference to TS34.108 clause 6.10 Parameter Set	
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter Set	
- Repetition Period		Reference to TS34.108 clause 6.10 Parameter Set	
- Repetition Length		Reference to TS34.108 clause 6.10 Parameter Set	
- First individual timeslot info			
- Timeslot number		The number of an uplink timeslot that has	
Timosist names		unassigned codes.	
- TFCI existence		TRUE	
- Midamble shift and burst type		11.02	
-CHOICE Burst Type			
-Type 1			
-Midamble Allocation Mode		Default	
- Midamble configuration burst		As defined in 3GPP TS 25.221	
type 1 and 3		. 15 3511103 11 0511 10 20.221	
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code	
The unione chamboneauth odder		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	
- Charmensation code			
		matching the SF specified in TS34.108 clause 6 Parameter Set.	
- CHOICE more timeslots		The presence of this IE depends upon the	
- CHOICE Milesiots		number of resources specified in TS34.108	
		section 6 and the number of slots in which they	
		are being assigned.	
CHOICE Mode		TDD (no data)	
Downlink information common for all radio links	A1,A3	(no data)	
- Downlink DPCH info common for all RL	7 , ,		
- Timing indicator		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information		THOU TOOGHT	
- CHOICE mode		TDD	
- DPC mode		0 (single)	
- Default DPCH Offset Value		Not Present	
Downlink information for per radio link list	A1,A3	Hottioont	
- Downlink information for each radio link	7(1,7(0		
- CHOICE mode		TDD	
- Primary CCPCH info	1	·	
- CHOICE SyncCase	1	Sync Case 1	
- Timeslot	1	PCCPCH timeslot	
- Cell parameters ID	1	0	
- SCTD indicator			
- Downlink DPCH info for each RL			
- CHOICE mode		TDD	
- DL CCTrCH List			
- TFCS ID	1	1	
- Time info	1	·	
- Activation time	1	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	1	infinite	
- Common timeslot info	1	i i i i i i i i i i i i i i i i i i i	
- 2 <sub>nd</sub> interleaving mode		Reference to TS34.108	
- TFCI coding	1	TRUE	
- Puncturing limit	1	Reference to TS34.108 clause 6 Parameter	
- i unotaring infilit	1	set	
- Repetition period	1	1	
- Repetition length	1	Empty	
- Downlink DPCH timeslots and codes	1	Епіріу	
- Individual timeslot info	1		
- mannana maesia mm			
- Timeslot number		The number of a downlink timeslot that has	

Information Element	Condition	Value/remark
		unassigned codes.
- TFCI existence		TRUE
<ul> <li>Midamble shift and burst type</li> </ul>		
-CHOICE Burst Type		
-Type 1		
-Midamble Allocation Mode		Default
- Midamble configuration burst		As defined in 3GPP TS 25.221
type 1 and 3		
<ul> <li>First timeslot channelisation codes</li> </ul>		
- First channelisation code		(i/SF) where i is the lowest numbered code
		that is being assigned and SF is specified in
		TS34.108 clause 6 Parameter Set
- Last channelisation code		(j/SF) where j is the highest numbered code
		that is being assigned in the slot.
- Bitmap		Bitmap of the codes that are being assigned in
'		the slot.
- CHOICE more timeslots		The presence of this IE depends upon whether
		the requirements of TS34.108 clause 6
		Parameter Set could be met by the codes that
		have been assigned in the first timeslot
- UL CCTrCH TPC List		Not Present
-SCCPCH information for FACH		Not Present

Co	ondition	Explanation
A1		This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is
		selected.
A3		This IE is needed for acknowledged mode.
NOTE:	In the case of	Performance Requirement and RRM test cases, A1 or A3 is selected according to the
	combination o	f UL and DL channels or test requirements.

# Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type	
U-RNTI	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
- 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.
<ul> <li>Message authentication code</li> </ul>	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  RRC transaction identifier	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present(Now)
New U-RNTI	0000 0000 0004 B
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not Present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	
- UE radio access FDD capability update	FALSE
requirement	
- UE radio access TDD capability update	TRUE
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	
<ul> <li>Information for each multiplexing option</li> </ul>	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	Configured
- CHOICE RLC size list	Configured
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1 (AM DOOL ( DDO)
- Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	

Information Element	Value/remark
- RLC info	T GLOOP TO THAT IT
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	7.111.11.25
- SDU discard mode	No Discard
- MAX_DAT	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	000
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
<ul> <li>Timer_status_prohibit</li> </ul>	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
·	2
- Logical channel identity	Not Present
<ul> <li>RLC logical channel mapping indicator</li> <li>Number of RLC logical channels</li> </ul>	
	1
- Uplink transport channel type	RACH Not Present
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- 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	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	000
- 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	Not i room
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
	1
- Number of RLC logical channels	
- 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
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	3
- 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 (AM DOCULton NAS, DT Love priority)
- 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

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	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	Net Dresent
- PRACH TFCS	Not Present
- CHOICE Mode	TDD
-Individual UL CCTrCH information	(This IE is repeated for TEO according)
- UL TFCS ID	(This IE is repeated for TFC number.)

- Activation time

- Duration

- Common timeslot info

#### Value/remark Information Element - UL TFCS - TFC subset Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to - Allowed Transport Format combination TS34.108 clause 6 Parameter Set.) - PRACH TFCS (This IE is repeated for TFC number.) - CHOICE TFCI signalling Normal - TFCI Field 1 information - 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 list - Added or Reconfigured UL TrCH information - Uplink transport channel type DCH - UL Transport channel identity 5 - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport Format Information According to TS34.108 clause 6 - RLC size - Number of TBs and TTI List (This IE is repeated for TFI number) - CHOICE mode - Transmission Time Interval According to TS34.108 clause 6 - CHOICE Logical channel list ΑII - Semi-static Transport Format information DL Transport channel information common for all transport channel - SCCPCH TFCS Not Present - CHOICE mode TDD Same as UL - CHOICE DL parameters Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information DCH - Downlink transport channel type 10 - DL Transport channel identity Same as UL - CHOICE DL parameters - Uplink transport channel type DCH - UL TrCH Identity - DCH quality target - BLER Quality value Reference to TS 34.108 Frequency info Not Present Maximum allowed UL TX power Not Present CHOICE channel requirement Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - UL target SIR Reference to TS34.108 Parameter set TDD - CHOICE mode Individually signalled - CHOICE UL OL PC info - Individual timeslot interference info Not Present - Individual timeslot interference - DPCH Constant Value - Primary CCPCH Tx Power Not Present - Time info

Infinite

(256+CFN-(CFN MOD 8 + 8))MOD 256

Information Element	Value/remark
- 2 <sub>nd</sub> interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink DPCH timeslots and 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 Indication	Initialise
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	Not i room
- DPC mode	0 (single)
- CHOICE mode	
	,
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for per radio links list	
-Downlink information for each radio links	
- CHOICE mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	•
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
	IIIIIIII
- 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	
- CHOICE more timeslots	The number of a depurities time select that the
- Timeslot number	The number of a downlink timeslot that has unassigned codes in a frame.
- Individual timeslot info	<b>U</b> ******* ** ** **
- TFCI existence	TRUE
- Midamble shift and burst type	
-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	(:/OF)h = == ::= (h = l =
- 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	have been assigned in the first timeslot  Not Present

# 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.  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
<ul> <li>Integrity protection algorithm capability</li> <li>UIA1</li> </ul>	000000000000010B (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 COMPLETE message. Use the same ciphering algorithm specified in "ciphering"
- Ciphering activation time for DPCH	Not Present
Radio bearer downlink ciphering activation time info	Not i resent
- 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 34.123-2. 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.
<ul> <li>Integrity protection mode command</li> </ul>	Start
<ul> <li>Downlink integrity protection activation info</li> </ul>	Not Present
<ul> <li>Integrity protection algorithm</li> </ul>	UIA1
<ul> <li>Integrity protection initialisation number</li> </ul>	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): Void

# Annex B (informative): Change history

Meeting -1st- Level	Doc-1st- Level	CR	Rev	Subject	Cat	Version- Current	Version- New	Doc-2nd- 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	C	3.0.1	3.1.0	T1-000191
TP-09	TP-000131	003		RRC Message Contents: PCPreamble	C	3.0.1	3.1.0	T1-000192
TP-09	TP-000131	004		RRC Message Contents: RBIdentity	C	3.0.1	3.1.0	T1-000193
TP-09	TP-000131	005		RRC Message Contents: TrCHParam	C	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	008		RRC Message Contents: PagingCause	С	3.0.1	3.1.0	T1-000197
TP-09	TP-000131	008		RRC Message Contents: CipheringAndIntegrity	С	3.0.1	3.1.0	T1-000197
		_						
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-09	TP-000131	012		RRC Message Contents: SIB	С	3.0.1	3.1.0	T1-000201
TP-09	TP-000131	013		RRC Message Contents: PhyCH	D	3.0.1	3.1.0	T1-000202
TP-09	TP-000131	014		RRC Message Contents: Measurement	С	3.0.1	3.1.0	T1-000203
TP-09	TP-000131	015		RRC Message Contents: TFCS	С	3.0.1	3.1.0	T1-000204
TP-09	TP-000131	016		RRC Message Contents: DPCHFrameOffset	С	3.0.1	3.1.0	T1-000205
TP-09	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-10	TP-000215	021		Common generic procedure for AS testing	В	3.1.0	3.2.0	T1-000294
TP-10	TP-000215	022			F	3.1.0	3.2.0	T1-000303
				Tcell parameter				
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-10	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	032		Correction for Generic Setup Procedures (34.108	F	3.2.0	3.3.0	T1-010078
				clause 7.2)				
TP-11	TP-010018	034		Corrections for Test USIM Parameters(34.108 clause 8)		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-11	TP-010018	037		Updates to clause 9 of TS 34.108 v3.2.0	F	3.2.0	3.3.0	T1-010084
TP-11	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-12	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	D	3.3.0	3.4.0	T1-010210
TD 40				intended for functional testing	_			T4 040044
TP-12	TP-010118	043		Update of list of abbreviations	D	3.3.0	3.4.0	T1-010211
TP-12	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-12	TP-010118	046		clause 6.1: System Information Blocks for TDD Mode		3.3.0	3.4.0	T1-010214
TP-12	TP-010118	047		Editorial corrections and removal of a reference document	F	3.3.0	3.4.0	T1-010215
TP-13	TP-010215	048		Correction to reference	F	3.4.0	3.5.0	T1-010275
TP-13	TP-010215	049		Editorial modification for References	F	3.4.0	3.5.0	T1-010276
11-13								

TP-13 TP-13	TP-010215					Curront	Now	
TP-13 TP-13						Current	New	Level
TP-13	TD 040045	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	F	3.4.0	3.5.0	T1-010279
TP-13	TP-010215	053		Updates to clause 6.1, clause 7.4 and clause 9	F	3.4.0	3.5.0	T1-010280
	TP-010215	054		Clause 6.1: Default radio conditions for Signalling tests	F	3.4.0	3.5.0	T1-010281
TP-13	TP-010215	055		Correction of Radio Bearer Configurations for FDD Mode	F	3.4.0	3.5.0	T1-010282
TP-13	TP-010215	056		Correction of Radio Bearer Configurations for TDD Mode	F	3.4.0	3.5.0	T1-010283
TP-13	TP-010215	057		Changes to Signalling Radio Bearer (SRB) numbering	F	3.4.0	3.5.0	T1-010284
TP-13	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-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	064	1	Correction to 6.1 Contents of System Information Blocks	F	3.5.0	3.6.0	T1-010474
TP-14	TP-010285	066	1	Corrections to clause 6.1, 7.4 and 9	F	3.5.0	3.6.0	T1-010472
TP-14	TP-010258	068		Reference Radio Conditions	F	3.5.0	3.6.0	T1-010460
TP-14	TP-010258	070		Modification of Test procedures for RF tests	F	3.5.0	3.6.0	T1-010462
TP-14	TP-010258	072		Default message contents for RF tests	F	3.5.0	3.6.0	T1-010464
TP-14	TP-010258	074		Correction to 6.10 Reference Radio Bearer configurations	F	3.5.0	3.6.0	T1-010466
TP-14	TP-010258	076		Definition of default value of rate matching attribute	F	3.5.0	3.6.0	T1-010468
TP-14	TP-010258	078		Update of clause 7.4 and 6.10	F	3.5.0	3.6.0	T1-010470
TP-14	TP-010291	080		Correction on introduction of section 6.10	F	3.5.0	3.6.0	
TP-15	TP-020038	082		Replacement of Block STTD by Space Code Transmit Diversity (SCTD)	F	3.6.0	3.7.0	T1-020091
TP-15	TP-020038	084		Update of reference radio conditions	F	3.6.0	3.7.0	T1-020097
TP-15	TP-020038	086		Update of system reference configurations and default messages	F	3.6.0	3.7.0	T1-020099
TP-15	TP-020038	088		Corrections to 34108-360	F	3.6.0	3.7.0	T1-020101
TP-15	TP-020038	090		Introduction of new Reference RABs (LS from RAN T1-020025)	F	3.6.0	3.7.0	T1-020194
TP-15	TP-020038	092		Clarification of bit rate of Interactive/Background PS RAB function	F	3.6.0	3.7.0	T1-020105
TP-15	TP-020038	093		Update of SIBs for TDD mode in TS34.108 (Rel99)	F	3.6.0	3.7.0	T1-020106
				Correction of CR implementation errors in clauses: 6.10.2.2, 6.10.2.4.1.23 and 6.10.2.4.1.58.2.1.1		3.7.0	3.7.1	
TP-16	TP-020141	096		Correction to clause 7.3.3.4 RADIO BEARER SETUP message	F	3.7.1	3.8.0	T1-020271
TP-16	TP-020141	097		Change of RM attribute of DL:3.4 kbps SRBs for DCCH in TS34.108 for R99	F	3.7.1	3.8.0	T1-020272
TP-16	TP-020141	098		New additional RAB configuration (R1-020669) for R99	F	3.7.1	3.8.0	T1-020273
TP-16	TP-020141	099		Correction of Puncturing Limit for RABs in TS34.108 for R99	F	3.7.1	3.8.0	T1-020274
TP-16	TP-020141	100		Test USIM	F	3.7.1	3.8.0	T1-020275
TP-16	TP-020141	101		Section 6.1 (SIBs)Rel 99 TDD	F	3.7.1	3.8.0	T1-020276
TP-16	TP-020141	102		Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	F	3.7.1	3.8.0	T1-020277
TP-16	TP-020141	103		Correction to default message on clause 9 for Rel'99	F	3.7.1	3.8.0	T1-020278
TP-16	TP-020141	104		Correction to clause 6.1for Rel'99	F	3.7.1	3.8.0	T1-020279
TP-16	TP-020141	105		WCDMA1800 additions for Rel'99	F	3.7.1	3.8.0	T1-020280
TP-16	TP-020141	106		Section 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD	F	3.7.1	3.8.0	T1-020281
TP-16	TP-020141	107		Section 9.1, Inclusion of Default message contents for TDD Rel 99(TS34.108)	F	3.7.1	3.8.0	T1-020282
TP-16	TP-020141	120		Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	F	3.7.1	3.8.0	T1-020433
TP-17	TP-020184	122	-	Alignment of reference configurations on S-CCPCH with default system information messages	F	3.8.0	3.9.0	T1-020502
TP-17	TP-020184	124	_	Addition of reference compressed mode pattern	F	3.8.0	3.9.0	T1-020504
TP-17	TP-020184	126	_	Corrections to default message contents as T1S-	F	3.8.0	3.9.0	T1-020504
TP-17	TP-020184	128	_	020346rev1				
TP-17 TP-17		_	-	Additional default message contents for RF Testing	F	3.8.0	3.9.0	T1-020508
TP-17	TP-020184 TP-020184	130	-	Corrections related to SIB11, SIB12 and to the MEASUREMENT CONTROL message Corrections to clause 6.1 (T1S-020348rev1)	F	3.8.0	3.9.0	T1-020526 T1-020529

Meeting -1st- Level	Doc-1st- Level	CR	Rev	Subject	Cat	Version- Current	Version- New	Doc-2nd- Level
TP-17	TP-020184	134	-	Introduction of reference configurations on S-CCPCH and PRACH with two interactive PS domain RABs	F	3.8.0	3.9.0	T1-020538
TP-17	TP-020184	136	-	Removal of reference radio bearer configurations for unidirectional streaming CS RABa above 64 kbps	F	3.8.0	3.9.0	T1-020540
TP-17	TP-020184	139	-	Some corrections and updates in clause 6.1 TS 34.108 for TDD mode	F	3.8.0	3.9.0	T1-020575
TP-17	TP-020184	141	-	Inclusion of default message contents for RF in clause 9.2 for TDD mode	F	3.8.0	3.9.0	T1-020577
TP-18	TP-020293	143	-	Correction to default messages in 9.1 and 9.2	F	3.9.0	3.10.0	T1-020657
TP-18	TP-020293	145	-	Corrections in the TDD test frequencies according to core specs	F	3.9.0	3.10.0	T1-020673
TP-18	TP-020293	147	-	Addition of alternative configuration using Turbo Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	F	3.9.0	3.10.0	T1-020693
TP-18	TP-020293	149	-	Correction to content of sub-clause 6.10.2	F	3.9.0	3.10.0	T1-020708
TP-18	TP-020293	151	-	Correction to SIB 11/12 definition	F	3.9.0	3.10.0	T1-020711
TP-18	TP-020293	153	-	Reference Measurement Channels	F	3.9.0	3.10.0	T1-020767
TP-18	TP-020293	155	-	Transferring system information definition using ASN.1 description to PRD	F	3.9.0	3.10.0	T1-020777
TP-18	TP-020293	157	-	Correction to RLC RAB TFCS	F	3.9.0	3.10.0	T1-020779
TP-18	TP-020293	159	-	Default Message contents : Correction from CRs approved in RP17meeting	F	3.9.0	3.10.0	T1-020782
TP-18	TP-020293	161	-	Corrections to SIB1 to SIB6	F	3.9.0	3.10.0	T1-020798
TP-18	TP-020293	163	-	Correction to RAB configurations as revision of T1S020755	F	3.9.0	3.10.0	T1-020800
TP-18	TP-020293	165	-	Parameter addition for Reference RABs based on LS from RAN2	F	3.9.0	3.10.0	T1-020802
TP-18	TP-020293	167	-	Addition to clause 7.4 for multi call as T1S-020576rev2 (revision to T1S020819)	F	3.9.0	3.10.0	T1-020817
TP-18	TP-020293	170	-	Correction to Contents of the Scheduling Block System Information in clause 6.1.3.	F	3.9.0	3.10.0	T1-020843

# History

	Document history				
V3.0.1	June 2000	Publication			
V3.1.0	September 2000	Publication			
V3.2.0	January 2001	Publication			
V3.3.0	March 2001	Publication			
V3.4.0	June 2001	Publication			
V3.5.0	September 2001	Publication			
V3.6.0	December 2001	Publication			
V3.7.0	March 2002	Publication (Withdrawn)			
V3.7.1	March 2002	Publication			
V3.8.0	June 2002	Publication			
V3.9.0	September 2002	Publication			
V3.10.0	December 2002	Publication			